

Single Digit Representations of Numbers From 2501 to 5000

Inder J. Taneja¹

Abstract

In previous work [8], the author wrote natural numbers from 1 to 1000 in terms of each digits. This paper bring the numbers 2501 to 5000 in terms of each digit. The work is divided in four parts giving total up to 10000 natural numbers written in term of each digit. For other parts refer [9, 10, 11]. The extension to 20000 shall be given later in another four parts.

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1 Crazy Representations of Natural Numbers

In this section, we shall write different ways of writing natural numbers. These representations are divided in four different types.

1.1 First Type: Increasing and Decreasing

In 2014, author [1] wrote natural numbers in increasing and decreasing orders of 1 to 9 and 9 to 1. See examples below:

$$100 := 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 \times 9 = 9 \times 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1$$

$$101 := 1 + 2 + 34 + 5 + 6 \times 7 + 8 + 9 = 9 \times 8 + 7 + 6 + 5 + 4 + 3 \times 2 + 1$$

$$102 := 12 + 3 \times 4 \times 5 + 6 + 7 + 8 + 9 = 9 + 8 + 7 + 6 + 5 + 4^3 + 2 + 1$$

$$103 := 1 \times 2 \times 34 + 5 + 6 + 7 + 8 + 9 = 9 + 8 + 7 \times 6 + 5 \times 4 + 3 + 21$$

$$104 := 1 + 23 + 4 + 5 + 6 + 7 \times 8 + 9 = 9 + 8 + 7 + 65 + 4 \times 3 + 2 + 1$$

¹Formerly, Professor of Mathematics, Universidade Federal de Santa Catarina, Florianópolis, SC, Brazil (1978-2012). Also worked at Delhi University, India (1976-1978).
E-mail: ijaneja@gmail.com; Web-sites: <http://inderjtaneja.com>; <http://indertaneja.com>; Twitter: @IJTANEJA.

$$\begin{aligned}
\mathbf{105} &:= 1 + 2 \times 3 \times 4 + 56 + 7 + 8 + 9 &= 9 + 8 \times 7 + 6 \times 5 + 4 + 3 + 2 + 1 \\
\mathbf{106} &:= 12 + 3 + 4 \times 5 + 6 + 7 \times 8 + 9 &= 9 + 8 \times 7 + 6 \times 5 + 4 + 3 \times 2 + 1 \\
\mathbf{107} &:= 1 \times 23 + 4 + 56 + 7 + 8 + 9 &= 9 + 8 + 76 + 5 + 4 + 3 + 2 \times 1 \\
\mathbf{108} &:= 1 + 2 + 3 + 4 + 5 + 6 + 78 + 9 &= 9 + 8 + 76 + 5 + 4 + 3 + 2 + 1.
\end{aligned}$$

See more examples,

$$\begin{aligned}
\mathbf{999} &:= 12 \times 3 \times (4 + 5) + (67 + 8) \times 9 &= 9 + 8 + 7 + 654 + 321. \\
\mathbf{2535} &:= 1 + 2345 + (6 + 7 + 8) \times 9 &= 9 + 87 \times (6 + 5 \times 4 + 3) + 2 + 1. \\
\mathbf{2607} &:= 123 \times 4 \times 5 + 6 + (7 + 8) \times 9 &= 987 + 6 \times 54 \times (3 + 2) \times 1. \\
\mathbf{10958} &:= 12 \times 3 + \sqrt{4} + 5! \times (67 + 8 \times \sqrt{9}) &= (9 + 8 \times 7 \times 65 + 4) \times 3 - 2 + 1. \\
\mathbf{11807} &:= 1 \times 234 \times (5 + 6 \times 7) + 89 &= -9 + 8 + 7 \times (6 + 5) \times (4 \times 3)^2 \times 1.
\end{aligned}$$

We observe that the number 10958 is the only number among 0 to 11111, where we need extra operations, such as **square-root**, **factorial**, etc. to write in increasing case. For more details refer author's web-site link [5]. Extension of numbers from 11112 to 30000 refer [2, 3, 4].

1.2 Second Type: Flexible Power Representations

Let us consider two numbers, 1 and 2. Using the idea of power and the operations of *addition* and *subtraction*, we can write following 3 numbers in terms of 1 and 2, as $1 = -1^2 + 2^1$, $3 = 1^2 + 2^1$ and $5 = 1^1 + 2^2$. In this situation, we observe that *bases* and *exponents* are of same digits. Permutations of exponent values helps in bringing different numbers. In case of repeated values, for example, $3 = 1^2 + 2^1 = -1^1 + 2^2$, only possibilities is considered. There is only one number having single digit, i.e., $1 = 1^1$. For simplicity, let us represent the above procedure as $(1, 2)^{(1, 2)}$, resulting in three possible values. The above procedure is with two digits. Instead having two digits, we can work with two letters, such as,

$$(a, b)^{(a, b)}, \dots (a, b, c, d, e, f, g, h, i)^{(a, b, c, d, e, f, g, h, i)},$$

where $a, b, c, d, e, f, g, h, i \in \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, all distinct.

1.2.1 Unequal String Lengths

$$\begin{array}{lll}
\mathbf{100} := 2^6 + 6^2 & \mathbf{107} := -1^2 + 2^7 - 3^3 + 7^1 & \mathbf{114} := -2^2 + 3^5 - 5^3 \\
\mathbf{101} := 1^1 + 2^6 + 6^2 & \mathbf{108} := 1^7 + 2^6 + 6^2 + 7^1 & \mathbf{115} := 1^5 - 2^1 - 3^2 + 5^3 \\
\mathbf{102} := -2^5 + 3^2 + 5^3 & \mathbf{109} := 1^2 + 2^7 - 3^3 + 7^1 & \mathbf{116} := 2^2 + 3^5 - 4^4 + 5^3 \\
\mathbf{103} := 1^1 - 2^5 + 3^2 + 5^3 & \mathbf{110} := 1^9 + 2^6 + 6^2 + 9^1 & \mathbf{117} := -1^1 + 3^5 - 5^3 \\
\mathbf{104} := -1^1 + 2^3 + 3^4 + 4^2 & \mathbf{111} := -1^3 + 2^7 - 3^2 - 7^1 & \mathbf{118} := 3^5 - 5^3 \\
\mathbf{105} := 2^3 + 3^4 + 4^2 & \mathbf{112} := 3^5 - 4^4 + 5^3 & \mathbf{119} := 1^1 + 3^5 - 5^3. \\
\mathbf{106} := 2^7 + 3^3 - 7^2 & \mathbf{113} := -1^5 - 2^1 - 3^2 + 5^3 &
\end{array}$$

See more examples,

$$\begin{array}{lll}
\mathbf{638} := -1^5 - 2^1 - 4^2 + 5^4 & \mathbf{3098} := -3^3 + 5^5 & \mathbf{11110} := 1^1 + 2^2 + 3^9 - 5^6 + 6^5 - 9^3 \\
\mathbf{666} := -2^5 + 3^2 + 4^3 + 5^4 & \mathbf{2280} := -1^1 - 2^6 + 4^5 + 5^2 + 6^4 & \mathbf{11111} := -1^1 + 2^7 + 3^8 - 4^2 + 7^3 + 8^4. \\
\mathbf{786} := -1^4 + 3^6 + 4^3 - 6^1 & \mathbf{6922} := -3^6 - 5^3 + 6^5 & \\
\mathbf{1933} := -1^3 - 2^2 + 3^7 - 4^4 + 7^1 & \mathbf{9711} := 1^3 + 2^4 + 3^8 + 4^2 + 5^5 - 8^1 & \\
\mathbf{1934} := 2^9 + 3^6 - 6^2 + 9^3 & \mathbf{9777} := 1^9 + 2^1 + 4^7 - 7^2 - 9^4 &
\end{array}$$

The whole work is from 1 to 11111. For details refer [6].

1.2.2 Equal String Lengths

Based on second type still we can write natural numbers in a sequential way with uniform representations. Instead working with unequal strings as of previous section, here we worked with equal string using the digits 0 to 9, i.e., using all the 10 digits, {0,1,2,3,4,5,6,7,8,9}. The results obtained are symmetric, i.e., writing in 0 to 9 or 9 to 0, the resulting number is same. See some examples below,

$$\begin{array}{ll}
\mathbf{201} := 0^3 + 1^9 + 2^4 + 3^7 - 4^8 + 5^1 + 6^6 + 7^5 + 8^2 + 9^0 & \mathbf{212} := 0^5 + 1^7 - 2^8 - 3^9 + 4^1 + 5^6 + 6^0 + 7^3 + 8^4 + 9^2 \\
\mathbf{202} := 0^0 + 1^9 + 2^6 + 3^8 - 4^7 + 5^5 + 6^3 + 7^2 + 8^1 + 9^4 & \mathbf{213} := 0^5 + 1^8 - 2^7 - 3^9 + 4^1 + 5^6 + 6^3 + 7^0 + 8^4 + 9^2 \\
\mathbf{203} := 0^3 - 1^9 + 2^4 + 3^7 - 4^8 + 5^0 + 6^6 + 7^5 + 8^2 + 9^1 & \mathbf{214} := 0^5 + 1^7 - 2^8 - 3^9 + 4^0 + 5^6 + 6^1 + 7^3 + 8^4 + 9^2 \\
\mathbf{204} := 0^8 + 1^9 + 2^5 + 3^7 - 4^6 + 5^1 + 6^4 + 7^2 + 8^0 + 9^3 & \mathbf{215} := 0^5 + 1^9 + 2^8 + 3^7 - 4^6 + 5^0 + 6^4 + 7^2 + 8^3 + 9^1 \\
\mathbf{205} := 0^3 + 1^9 + 2^4 + 3^7 - 4^8 + 5^0 + 6^6 + 7^5 + 8^2 + 9^1 & \mathbf{216} := 0^1 - 1^7 + 2^8 - 3^9 + 4^5 + 5^6 + 6^0 + 7^4 + 8^3 + 9^2 \\
\mathbf{206} := 0^7 - 1^9 - 2^5 - 3^8 + 4^6 + 5^1 + 6^3 + 7^4 + 8^0 + 9^2 & \mathbf{217} := 0^7 - 1^9 + 2^5 - 3^8 + 4^6 + 5^2 + 6^3 + 7^4 + 8^1 + 9^0 \\
\mathbf{207} := 0^8 + 1^9 + 2^5 + 3^7 - 4^6 + 5^0 + 6^4 + 7^2 + 8^1 + 9^3 & \mathbf{218} := 0^1 + 1^7 + 2^8 - 3^9 + 4^5 + 5^6 + 6^0 + 7^4 + 8^3 + 9^2 \\
\mathbf{208} := 0^7 + 1^9 - 2^5 - 3^8 + 4^6 + 5^1 + 6^3 + 7^4 + 8^0 + 9^2 & \mathbf{219} := 0^7 + 1^9 + 2^5 - 3^8 + 4^6 + 5^2 + 6^3 + 7^4 + 8^1 + 9^0 \\
\mathbf{209} := 0^7 - 1^9 - 2^5 - 3^8 + 4^6 + 5^0 + 6^3 + 7^4 + 8^1 + 9^2 & \mathbf{220} := 0^7 + 1^9 + 2^5 - 3^8 + 4^6 + 5^2 + 6^3 + 7^4 + 8^0 + 9^1. \\
\mathbf{210} := 0^5 - 1^7 - 2^8 - 3^9 + 4^1 + 5^6 + 6^0 + 7^3 + 8^4 + 9^2 & \\
\mathbf{211} := 0^7 + 1^9 - 2^5 - 3^8 + 4^6 + 5^0 + 6^3 + 7^4 + 8^1 + 9^2 &
\end{array}$$

Below are more examples,

$$\begin{array}{l}
\mathbf{11080} := 0^8 + 1^9 + 2^7 + 3^6 + 4^2 + 5^5 + 6^0 + 7^1 + 8^3 + 9^4 \\
\mathbf{11081} := 0^8 - 1^9 + 2^6 + 3^7 + 4^4 + 5^1 + 6^5 + 7^0 + 8^2 + 9^3 \\
\mathbf{11082} := 0^8 + 1^9 + 2^6 + 3^7 + 4^1 + 5^4 + 6^5 + 7^3 + 8^0 + 9^2 \\
\mathbf{11083} := 0^8 + 1^9 + 2^6 + 3^7 + 4^4 + 5^1 + 6^5 + 7^0 + 8^2 + 9^3 \\
\mathbf{11084} := 0^7 + 1^9 + 2^8 + 3^6 + 4^1 + 5^5 + 6^0 + 7^3 + 8^2 + 9^4 \\
\mathbf{11085} := 0^8 + 1^9 + 2^6 + 3^7 + 4^4 + 5^0 + 6^5 + 7^1 + 8^2 + 9^3 \\
\mathbf{11086} := 0^7 + 1^9 + 2^8 + 3^6 + 4^0 + 5^5 + 6^1 + 7^3 + 8^2 + 9^4 \\
\mathbf{11087} := 0^6 + 1^9 - 2^8 + 3^7 + 4^2 + 5^4 + 6^5 + 7^0 + 8^1 + 9^3.
\end{array}$$

The whole work is from 1 to 11111. For details refer [7].

Analysing the procedures given in sections 1.1 and 1.2, we observe that in section 1.1, all the 9 digits are used in increasing and decreasing ways to bring natural numbers, where each digit appears only once. In this case, the operations

used are, **addition, subtraction, multiplication, division, potentiation, factorial** and **square-root**. The section 1.2 works with representations of natural numbers written in a way that we use each digit twice, where **bases** and **exponents** are of same digits with different permutations. Subsection 1.2.1 choose the digits from 1 to 9, according to necessity, while subsection 1.2.2 works with all the 10 digits, i.e., 0 to 9, along with the operations of **addition** and **subtraction**.

1.3 Third Way: Single Digit Representations

In [1], author wrote natural numbers 1 to 1000 using single digit in each case. For example,

$$717 := (1+1)^{11} - 11^{(1+1+1)}$$

$$:= 22^2 + 222 + 22/2$$

$$:= 3^{(3+3)} - 3 - 3 \times 3$$

$$:= 4 \times (4 \times 44 + 4) - 4 + 4/4$$

$$:= (55 \times (55 + 5 + 5) + 5 + 5)/5$$

$$:= (6 \times 6/(6+6))^6 - 6 - 6$$

$$:= 777 - 7 \times 7 - 77/7$$

$$:= 8 \times 88 + (88 + 8 + 8)/8$$

$$:= 9 \times 9 \times 9 - (99 + 9)/9.$$

$$995 := (11-1)^{(1+1+1)} - (11-1)/(1+1)$$

$$:= 22 + 2 \times (22^2 + 2) + 2/2$$

$$:= 3 \times 333 - 3 - 3/3$$

$$:= 4 \times (4^4 - 4 - 4) + 4 - 4/4$$

$$:= 5 \times (5+5) \times (5 \times 5 - 5) - 5$$

$$:= 666 + 6 \times 66 - 66 - 6/6$$

$$:= (7+7) \times (77-7) + 7 + 7 + 7/7$$

$$:= 888 + 88 + 8 + 88/8$$

$$:= 999 - (9+9+9+9)/9.$$

$$786 := ((1+1+1)^{(1+1+1)} + 1)^{(1+1)} + 1 + 1$$

$$:= (22 + 2 + 2 + 2)^2 + 2$$

$$:= 33 \times (3^3 - 3) - 3 - 3$$

$$:= 4 \times (4 \times (44 + 4) + 4) + (4 + 4)/4$$

$$:= 5 + (5^5 - 5/5)/(5 - 5/5)$$

$$:= 66 \times (6+6) - 6$$

$$:= 777 + 7 + (7+7)/7$$

$$:= 8 \times (88 + 8) + 8 + (88 - 8)/8$$

$$:= 9 \times 99 - 99 - 9 + (9+9+9)/9$$

$$1000 := (11-1)^{(1+1+1)}$$

$$:= 2 \times (22^2 + 2^{(2+2)})$$

$$:= (3 \times 3 + 3/3)^3$$

$$:= 4 \times (4^4 - 4) - 4 - 4$$

$$:= 5 \times (5+5) \times (5 \times 5 - 5)$$

$$:= ((66 - 6)/6)^{(6 \times 6/(6+6))}$$

$$:= (7+7+7-7/7) \times (7 \times 7 + 7/7)$$

$$:= 888 + 88 + 8 + 8 + 8$$

$$:= 999 + 9/9.$$

Values are calculated up to 1.000.000 (.txt file), but the work is written only from 0 to 1000. For details, refer Taneja [8].

1.4 Forth Way: Single Letter Representations

We observe that the numbers written in previous section 1.3 are in terms of each digit, not necessarily symmetric. But there are numbers, that can be written in a symmetric way, see examples below:

$$\bullet 5 = \frac{11-1}{1+1} = \frac{22-2}{2+2} = \frac{33-3}{3+3} = \frac{44-4}{4+4} = \frac{55-5}{5+5} = \frac{66-6}{6+6} = \frac{77-7}{7+7} = \frac{88-8}{8+8} = \frac{99-9}{9+9}.$$

$$\bullet 6 = \frac{11+1}{1+1} = \frac{22+2}{2+2} = \frac{33+3}{3+3} = \frac{44+4}{4+4} = \frac{55+5}{5+5} = \frac{66+6}{6+6} = \frac{77+7}{7+7} = \frac{88+8}{8+8} = \frac{99+9}{9+9}.$$

$$\bullet 55 = \frac{111-1}{1+1} = \frac{222-2}{2+2} = \frac{333-3}{3+3} = \frac{444-4}{4+4} = \frac{555-5}{5+5} = \frac{666-6}{6+6} = \frac{777-7}{7+7} = \frac{888-8}{8+8} = \frac{999-9}{9+9}.$$

$$\bullet 56 = \frac{111+1}{1+1} = \frac{222+2}{2+2} = \frac{333+3}{3+3} = \frac{444+4}{4+4} = \frac{555+5}{5+5} = \frac{666+6}{6+6} = \frac{777+7}{7+7} = \frac{888+8}{8+8} = \frac{999+9}{9+9}.$$

Motivated by this idea, instead working for each digit separately, we can work with a **single letter "a"**, for example,

$$\begin{aligned} 5 &:= \frac{aa - a}{a + a} & 1991 &:= \frac{\frac{aaaaaa}{aaa} \times (a + a) - aa}{\frac{aaaaa - a^a}{aa} \times (a + a)} \\ 6 &:= \frac{aa + a}{a + a} & 2020 &:= \frac{\frac{aaaa - a^a}{a + a} \times aa}{\frac{a + a + a}{aaa} \times aa \times aa} \\ 55 &:= \frac{aaa - a}{a + a} & 2035 &:= \frac{\frac{aaaa - a^a}{a + a + a}}{\frac{a + a}{aaa} \times aa \times aa} \\ 56 &:= \frac{aaa + a}{a + a} & 4477 &:= \frac{\frac{aaaa - a^a}{a + a + a}}{a \times a} \\ 561 &:= \frac{aaaa + aa}{a + a} & 4999 &:= \frac{(aaaaa - aaaa - a - a)}{(a + a)} \\ 666 &:= \frac{aaa \times (aa + a)}{(a + a) \times a} & 5000 &:= \frac{(aaaaa - aaaa)}{(a + a)} \\ 786 &:= \frac{(\frac{(aa + a) \times aa}{a} - a) \times (aa + a)}{(a + a) \times a} & 122988 &:= \frac{(aaaa - a - a - a) \times aaa}{a \times a} \\ 925 &:= \frac{aaaaa - aa}{aa + a} \\ 1089 &:= \frac{aaaa - aa - aa}{a} \end{aligned}$$

where $a \in \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, and $aa = 10 \times a + a$, $aaa = 10^2 \times a + 10 \times a + a$, etc.

The full work is from 1 to 11111 numbers, written in two different ways. One running type [15] and another in fraction-type way [16]. For previous work refer [12, 13]. The summary of author's work on recreation of numbers in different situations refer [17].

2 Single Digit Representations From 1 to 10000

The whole work brings numbers 1 to 10000 written in terms of single digits. Since, it is not possible to put all the numbers in single work, we divided it in four parts as given below:

- Part I: From 0001 to 2500 [9];
- Part II: From 2501 to 5000;
- Part III: From 5001 to 7500 [10];
- Part IV: From 7501 to 10000 [11].

This paper brings second part giving **single digit representations** of natural numbers from 2501 to 5000. For other parts refer [9, 10, 11]. The extension to 20000 shall be given later in another four parts.

Remark 2.1. *Due to high quantity of numbers there are so many extra brackets. After simplifications, these unnecessary brackets can be removed easily.*

2.1 Single Digit Representation: 2501-5000

This subsection bring the first part of the whole project. Here, the numbers are represented from 2501 to 5000 in terms of different digits.

$$\begin{aligned}
 \blacktriangleright 2501 &:= 1 + (((11-1)^{1+1}/(1+1))^{1+1}) \\
 &:= 2/2 + (2 \times (22+2) + 2)^2 \\
 &:= ((33/3+3)^3) - 3 \times 3 \times 3^3 \\
 &:= 4/4 + (4 \times (4/4+4)^4) \\
 &:= 5^5 + ((5-5^5)/5) \\
 &:= (6 \times 6 - 6/6 + 6) \times (66 - 6 + 6/6) \\
 &:= 7/7 + ((7/7 + 7 \times 7)^{(7+7)/7}) \\
 &:= 88 + ((88/8+8) \times (8 \times (8+8) - 8/8)) \\
 &:= 9 \times 9 \times 9 + ((9+9) \times 99 - (9/9+9))
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2505 &:= ((1 + (11+11)) \times (111 - 1 - 1)) - 1 - 1 \\
 &:= 2 + (2 \times (22+2) + 2)^2 + 2/2 + 2 \\
 &:= (3^3 \times ((3 \times (3^3+3)) + 3)) - 3 - 3 \\
 &:= 4 + ((4 \times (4/4+4)^4) + 4/4) \\
 &:= 5 + (5^5 - 5^5/5) \\
 &:= 6 + (((666/6+6 \times 6 \times 66) + 6) + 6) \\
 &:= 7 + ((7 \times (7 \times 7 \times 7 + 7 + 7)) - 7/7) \\
 &:= 8 + (((8+8+8) \times (88+8+8)) + 8/8) \\
 &:= 9 + ((9-9/9) \times ((9+9) \times (9+9) - ((99+9)/9)))
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2509 &:= 1 + ((1+1) \times (11 \times (1+1+1+111))) \\
 &:= 22^2 + (2 \times 22 + 2/2)^2 \\
 &:= 3/3 + (33 \times (((3+3)^3 + 3)/3) + 3) \\
 &:= 4 + (((4 \times (4/4+4)^4) + 4/4) + 4) \\
 &:= 5 + ((5^5 - (5^5+5)/5) + 5) \\
 &:= 6/6 + (66 \times ((6+6)/6 + 6 \times 6)) \\
 &:= ((77-7)/7) + (7 \times (7 \times 7 \times 7 + 7 + 7)) \\
 &:= 88 + (((8+8) \times (8 \times 8 + 88)) - (88/8)) \\
 &:= 9 + (((9 \times 99 + 9)/(9+9))^{(9+9)/9})
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2502 &:= 1 + (1 + (((11-1)^{1+1}/(1+1))^{1+1})) \\
 &:= 2 + (2 \times (22+2) + 2)^2 \\
 &:= 3 + ((3 \times (3+3))^3 - 3333) \\
 &:= (4+4)/4 + (4 \times (4/4+4)^4) \\
 &:= 5^5 + (((5-5^5)+5)/5) \\
 &:= (66 \times ((6+6)/6 + 6 \times 6)) - 6 \\
 &:= (7+7)/7 + ((7/7 + 7 \times 7)^{(7+7)/7}) \\
 &:= 8 + (((8+8+8) \times (88+8+8)) - ((8+8)/8)) \\
 &:= 9 \times 9 \times 9 + ((9+9) \times 99 - 9)
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2506 &:= (1+1) \times ((11 \times (1+1+1+111)) - 1) \\
 &:= 2 + (2 \times (22+2) + 2)^2 + 2 + 2 \\
 &:= 3 \times 3 + (33/3 \times ((3+3)^3 + 33/3)) \\
 &:= 4 + (((4 \times (4/4+4)^4) + (4+4)/4) \\
 &:= 5 + (((5-5^5)/5) + 5^5) \\
 &:= 66 + (6 \times 6 \times 66 + ((6+6)/6)^6) \\
 &:= 7 + (7 \times (7 \times 7 \times 7 + 7 + 7)) \\
 &:= 8 + (((8+8+8) \times (88+8+8)) + ((8+8)/8)) \\
 &:= (((9 \times 9 + 9)/(9+9)) \times (((9+9)/9)^9 - 9)) - 9
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2510 &:= (1+1) \times (1 + (11 \times (1+1+1+111))) \\
 &:= 2 + 22 \times ((222+2)/2 + 2) \\
 &:= (3^3 \times ((3 \times (3^3+3)) + 3)) - 3/3 \\
 &:= (44-4)/4 + (4 \times (4/4+4)^4) \\
 &:= 5 + ((5^5 - 5^5/5) + 5) \\
 &:= (6+6)/6 + (66 \times ((6+6)/6 + 6 \times 6)) \\
 &:= 77/7 + (7 \times (7 \times 7 \times 7 + 7 + 7)) \\
 &:= 88 \times (8+8) + ((8888-8)/8 - 8) \\
 &:= 9 \times 9 \times 9 + ((9+9) \times 99 - 9/9)
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2503 &:= ((11 \times (1+1)^{11}) - 1)/(11 - 1 - 1) \\
 &:= 2 + (2 \times (22+2) + 2)^2 + 2/2 \\
 &:= 3 + ((33/3 \times ((3+3)^3 + 33/3)) + 3) \\
 &:= 4 + (((4 \times (4/4+4)^4) - 4/4) \\
 &:= 5 + (5^5 - (5^5+5+5)/5) \\
 &:= 6 + 66/6 \times (6 \times 6 \times 6 + 66/6) \\
 &:= 77/7 + ((7 \times (7 \times 7 \times 7 + 7 + 7)) - 7) \\
 &:= 8 + (((8+8+8) \times (88+8+8)) - 8/8) \\
 &:= 9/9 + (((9+9) \times 99 - 9) + 9 \times 9)
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2507 &:= (1 + (11+11)) \times (111 - 1 - 1) \\
 &:= (22 + 2/2) \times (222/2 - 2) \\
 &:= (3^3 \times ((3 \times (3^3+3)) + 3)) - (3/3+3) \\
 &:= 4 + (((4 \times (4/4+4)^4) - 4/4) + 4) \\
 &:= 5 + (((5-5^5)+5)/5) + 5^5 \\
 &:= (66 \times ((6+6)/6 + 6 \times 6)) - 6/6 \\
 &:= 7 + ((7/7 + 7 \times 7)^{(7+7)/7}) \\
 &:= 88/8 + ((8+8+8) \times (88+8+8)) \\
 &:= (9/9 + 99 + 9) \times ((99+99+9)/9)
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2511 &:= 11 + (((11-1)^{1+1}/(1+1))^{1+1}) \\
 &:= 22/2 + (2 \times (22+2) + 2)^2 \\
 &:= 3^3 \times ((3 \times (3^3+3)) + 3) \\
 &:= 44/4 + (4 \times (4/4+4)^4) \\
 &:= 5^5 + ((55-5^5)/5) \\
 &:= (66 \times 66 + 666)/((6+6)/6) \\
 &:= 7 \times 7 \times 7 + (777-7)/7 \\
 &:= 88 \times (8+8) + (8888/8 - 8) \\
 &:= 9 \times ((99+99) + 9 \times 9)
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2504 &:= 1 + (((11 \times (1+1)^{11}) - 1)/(11 - 1 - 1)) \\
 &:= 2 + (2 \times (22+2) + 2)^2 + 2 \\
 &:= 3 + (((33/3+3)^3) - 3 \times 3 \times 3^3) \\
 &:= 4 + (4 \times (4/4+4)^4) \\
 &:= 5 + (5^5 - (5^5+5)/5) \\
 &:= 6 \times 6 \times 66 + (((6+6)/6)^{6/6+6}) \\
 &:= 7 + ((7 \times (7 \times 7 \times 7 + 7 + 7)) - ((7+7)/7)) \\
 &:= 8 + ((8+8+8) \times (88+8+8)) \\
 &:= (9-9/9) \times ((9+9) \times (9+9) - (99/9))
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2508 &:= (1+1) \times (11 \times (1+1+1+111)) \\
 &:= 22 \times ((222+2)/2 + 2) \\
 &:= 33 \times (((3+3)^3 + 3)/3 + 3) \\
 &:= 4 + ((4 \times (4/4+4)^4) + 4) \\
 &:= (5-5/5) \times (5^5 + 5+5)/5 \\
 &:= 66 \times ((6+6)/6 + 6 \times 6) \\
 &:= 7 + (((7/7 + 7 \times 7)^{(7+7)/7}) + 7/7) \\
 &:= (88/((8+8)/8)) \times ((8/8-8) + 8 \times 8) \\
 &:= 9 \times 9 \times 9 + ((9+9) \times 99 - (9+9+9)/9)
 \end{aligned}$$

$$\begin{aligned}
 \blacktriangleright 2512 &:= 1 + (11 + (((11-1)^{1+1}/(1+1))^{1+1})) \\
 &:= (2 \times 22)^2 + ((22+2)^2) \\
 &:= 3/3 + (3^3 \times ((3 \times (3^3+3)) + 3)) \\
 &:= (4 \times ((4/4+4)^4 + 4)) - 4 \\
 &:= 5^5 + (((55-5^5)+5)/5) \\
 &:= ((6+6)/6)^6 + (6 \times (6 \times 66 + 6 + 6)) \\
 &:= 777/7 + 7 \times 7 \times 7 \times 7 \\
 &:= 8 + (((8+8+8) \times (88+8+8)) + 8) \\
 &:= 9/9 + ((9+9) \times 99 + 9 \times 9 \times 9)
 \end{aligned}$$

- ▶ 2513 := $1 + (1 + (11 + (((11 - 1)^{1+1} / (1 + 1))^{1+1})))$
:= $2 + ((2 \times (22 + 2) + 2)^2 + 22/2)$
:= $3 + ((3^3 \times ((3 \times (3^3 + 3)) + 3)) - 3/3)$
:= $4/4 + ((4 \times ((4/4 + 4)^4 + 4)) - 4)$
:= $5 + ((5 - 5/5) \times (5^5 + 5 + 5)/5)$
:= $(6/6 + 6) \times (6 \times (66 - 6) - 6/6)$
:= $7 + ((7 \times (7 \times 7 \times 7 + 7 + 7)) + 7)$
:= $8 + (((8 + 8 + 8) \times (88 + 8 + 8)) + 8/8) + 8)$
:= $9 \times 9 \times 9 + ((9 + 9) \times 99 + ((9 + 9)/9))$
- ▶ 2514 := $11 + (((11 \times (1 + 1)^{11}) - 1) / (11 - 1 - 1))$
:= $2 + ((2 \times 22)^2 + ((22 + 2)^2))$
:= $3 + (3^3 \times ((3 \times (3^3 + 3)) + 3))$
:= $(4 \times ((4/4 + 4)^4 + 4)) - (4 + 4)/4$
:= $5 + (((5^5 - (5^5 + 5)/5) + 5) + 5)$
:= $((6 + 6) \times (6 \times 6 \times 6 - 6)) - 6$
:= $7 + (((7/7 + 7 \times 7)^{(7+7)/7}) + 7)$
:= $8 + (((8 + 8 + 8) \times (88 + 8 + 8)) + ((8 + 8)/8)) + 8)$
:= $9 \times 9 \times 9 + ((9 + 9) \times 99 + ((9 + 9 + 9)/9))$
- ▶ 2515 := $1 + (11 + (((11 \times (1 + 1)^{11}) - 1) / (11 - 1 - 1)))$
:= $2 + (((2 \times (22 + 2) + 2)^2 + 22/2) + 2)$
:= $3 + ((3^3 \times ((3 \times (3^3 + 3)) + 3)) + 3/3)$
:= $(4 \times ((4/4 + 4)^4 + 4)) - 4/4$
:= $5^5 - (555 + 55)$
:= $6/6 + (((6 + 6) \times (6 \times 6 \times 6 - 6)) - 6)$
:= $7 \times 7 \times 7 + (((7 + 7)/7)^7 - (7 + 7))$
:= $8 + (((8 + 8 + 8) \times (88 + 8 + 8)) + (88/8))$
:= $((9 \times 9 + 9) / (9 + 9)) \times (((9 + 9)/9)^9) - 9)$
- ▶ 2516 := $(1 + 1) \times (11 \times 111 + (111 / (1 + 1 + 1)))$
:= $2^{2+2} + (2 \times (22 + 2) + 2)^2$
:= $333 + (3 \times 3^{3+3} - (3/3 + 3))$
:= $4 \times ((4/4 + 4)^4 + 4)$
:= $5 + (((55 - 5^5) / 5) + 5^5)$
:= $(6 \times 6 + 6/6) \times (((6 + 6) / 6) + 66)$
:= $77 + (7 \times (7 \times 7 \times 7 + 7) - (77/7))$
:= $((8 \times 8 \times (88 - 8)) - 88) / ((8 + 8) / 8)$
:= $9 + ((9/9 + 99 + 9) \times ((99 + 99 + 9) / 9))$
- ▶ 2517 := $11 + ((1 + 1) \times ((11 \times (1 + 1 + 1 + 111)) - 1))$
:= $2/2 + ((2 \times (22 + 2) + 2)^2 + 2^{2+2})$
:= $333 + (3 \times 3^{3+3} - 3)$
:= $4/4 + (4 \times ((4/4 + 4)^4 + 4))$
:= $5 + (((55 - 5^5) + 5) / 5) + 5^5$
:= $666/6 + (6 \times (6 \times 66 + 6) - 6)$
:= $7 + ((7 \times (7 \times 7 \times 7 + 7 + 7)) + (77/7))$
:= $88 \times (8 + 8) + ((8888 - (8 + 8)) / 8)$
:= $9 + (((9 + 9) \times 99 - ((9 + 9 + 9) / 9)) + 9 \times 9 \times 9)$
- ▶ 2518 := $11 + ((1 + (11 + 11)) \times (111 - 1 - 1))$
:= $2 + ((2 \times (22 + 2) + 2)^2 + 2^{2+2})$
:= $3/3 + ((3 \times 3^{3+3} - 3) + 333)$
:= $(4 + 4) / 4 + (4 \times ((4/4 + 4)^4 + 4))$
:= $5^5 - (((55 \times 55 + 5) + 5) / 5)$
:= $((6 + 6) \times (6 \times 6 \times 6 - 6)) - (6 + 6) / 6$
:= $7 + ((777 - 7) / 7 + 7 \times 7 \times 7 \times 7)$
:= $88 \times (8 + 8) + (8888 - 8) / 8$
:= $9 + (((9 \times 99 + 9) / (9 + 9))^{(9+9)/9}) + 9)$
- ▶ 2519 := $11 \times (1 + ((1 + 1) \times (1 + 1 + 1 + 111)))$
:= $22/2 \times (((22^2 - 22) / 2) - 2)$
:= $333 + (3 \times 3^{3+3} - 3/3)$
:= $((44 - 4) \times (4^4 - 4) - 4) / 4$
:= $5^5 - ((55 \times 55 + 5) / 5)$
:= $((6 + 6) \times (6 \times 6 \times 6 - 6)) - 6/6$
:= $7 + (777/7 + 7 \times 7 \times 7 \times 7)$
:= $88 \times (8 + 8) + 8888/8$
:= $9 + (((9 + 9) \times 99 - 9/9) + 9 \times 9 \times 9)$
- ▶ 2520 := $(11 + (11 - 1)) \times (11^{1+1} - 1)$
:= $22 + ((2 \times (22 + 2) + 2)^2 - 2)$
:= $333 + 3 \times 3^{3+3}$
:= $4 + (4 \times ((4/4 + 4)^4 + 4))$
:= $5^5 - (55 \times (55/5))$
:= $(6 + 6) \times (6 \times 6 \times 6 - 6)$
:= $77 + (7 \times (7 \times 7 \times 7 + 7) - 7)$
:= $88 + ((8 + 8) \times (8 \times 8 + 88))$
:= $9 + ((9 + 9) \times 99 + 9 \times 9 \times 9)$
- ▶ 2521 := $1 + ((11 + (11 - 1)) \times (11^{1+1} - 1))$
:= $22 + ((2 \times (22 + 2) + 2)^2 - 2/2)$
:= $3/3 + (3 \times 3^{3+3} + 333)$
:= $((44 - 4) \times (4^4 - 4) + 4) / 4$
:= $5^5 + ((5 - 55 \times 55) / 5)$
:= $6/6 + ((6 + 6) \times (6 \times 6 \times 6 - 6))$
:= $7 + (((7/7 + 7 \times 7)^{(7+7)/7}) + 7) + 7)$
:= $8/8 + (((8 + 8) \times (8 \times 8 + 88)) + 88)$
:= $9 + (((9 + 9) \times 99 + 9 \times 9 \times 9) + 9/9)$
- ▶ 2522 := $1 + (1 + ((11 + (11 - 1)) \times (11^{1+1} - 1)))$
:= $22 + (2 \times (22 + 2) + 2)^2$
:= $3 + ((3 \times 3^{3+3} - 3/3) + 333)$
:= $((44 - 4) \times (4^4 - 4) + 4) / 4$
:= $5^5 + (((5 - 55 \times 55) + 5) / 5)$
:= $(6 + 6) / 6 + ((6 + 6) \times (6 \times 6 \times 6 - 6))$
:= $7 \times 7 \times 7 + (((7 + 7) / 7)^7 - 7)$
:= $88 + (((8 + 8) \times (8 \times 8 + 88)) + ((8 + 8) / 8))$
:= $9 \times 9 \times 9 + ((9 + 9) \times 99 + (99/9))$
- ▶ 2523 := $(1 + 1 + 1) \times (((11 - 1) \times (1 + 1 + 1)) - 1)^{1+1}$
:= $22 + ((2 \times (22 + 2) + 2)^2 + 2/2)$
:= $3 + (3 \times 3^{3+3} + 333)$
:= $4 + (((44 - 4) \times (4^4 - 4) - 4) / 4)$
:= $5 \times 5 + (5^5 - (5^5 + 5 + 5) / 5)$
:= $666/6 + 6 \times (6 \times 66 + 6)$
:= $7 \times 7 \times 7 + (((7 + 7 + 7) / 7)^7 - 7)$
:= $(8/8 - 88) \times (8 - 888 / (8 + 8 + 8))$
:= $9 \times 9 + (999/9 \times ((99 + 99) / 9))$
- ▶ 2524 := $1 + ((1 + 1 + 1) \times (((11 - 1) \times (1 + 1 + 1)) - 1)^{1+1})$
:= $2 + ((2 \times (22 + 2) + 2)^2 + 22)$
:= $3 + ((3 \times 3^{3+3} + 333) + 3/3)$
:= $4 + ((4 \times ((4/4 + 4)^4 + 4)) + 4)$
:= $5 \times 5 + (5^5 - (5^5 + 5) / 5)$
:= $6 + (((6 + 6) \times (6 \times 6 \times 6 - 6)) - ((6 + 6) / 6))$
:= $((7 + 7) / 7 + 7 \times 7)^{(7+7)/7} - 77$
:= $((8 \times (8 \times (88 - 8) - 8)) - 8) / ((8 + 8) / 8)$
:= $9 + (((9 \times 9 + 9) / (9 + 9)) \times (((9 + 9) / 9)^9) - 9)$
- ▶ 2525 := $(1 + ((1 + 1) \times (1 + 11))) \times (1 + (11 - 1)^{1+1})$
:= $222 + (((2 \times (22 + 2))^2 - 2) / 2)$
:= $((33/3 + 3)^3) - ((3 + 3)^3 + 3)$
:= $4 + (((44 - 4) \times (4^4 - 4) + 4) / 4)$
:= $5 \times ((5 \times 5 \times (5 \times 5 - 5)) + 5)$
:= $6 + (((6 + 6) \times (6 \times 6 \times 6 - 6)) - 6/6)$
:= $77 + (7 \times (7 \times 7 \times 7 + 7) - ((7 + 7) / 7))$
:= $((8 - 88/8) + 8) \times ((8 \times 8 \times 8 - 8) + 8/8)$
:= $((9 + 9) / 9 + 99) \times (((9 - ((9 + 9) / 9)) + 9) + 9)$
- ▶ 2526 := $1 + ((1 + ((1 + 1) \times (1 + 11))) \times (1 + (11 - 1)^{1+1}))$
:= $222 + ((2 \times (22 + 2))^2)$
:= $3 + ((3 \times 3^{3+3} + 333) + 3)$
:= $4 + (((44 - 4) \times (4^4 - 4) + 4) + 4) / 4$
:= $5 \times 5 + (((5 - 5^5) / 5) + 5^5)$
:= $6 + ((6 + 6) \times (6 \times 6 \times 6 - 6))$
:= $77 + (7 \times (7 \times 7 \times 7 + 7) - 7/7)$
:= $8 + ((8888 - 8) / 8 + 88 \times (8 + 8))$
:= $99 + (((9 + 9 + 9) / 9) \times (9 \times (9 \times 9 + 9) - 9/9))$
- ▶ 2527 := $(1 + (11 \times (1 + 11))) \times (((1 + 1) \times (11 - 1)) - 1)$
:= $2/2 + (((2 \times (22 + 2))^2) + 222)$
:= $333 + (((3 \times 3 + 3/3) + 3)^3) - 3)$
:= $44/4 + (4 \times ((4/4 + 4)^4 + 4))$
:= $5 \times 5 + (((5 - 5^5) + 5) / 5) + 5^5$
:= $6 + (((6 + 6) \times (6 \times 6 \times 6 - 6)) + 6/6)$
:= $77 + 7 \times (7 \times 7 \times 7 + 7)$
:= $8 + (8888/8 + 88 \times (8 + 8))$
:= $99 + ((9 \times 9 + 9) \times (9 + 9 + 9) - ((9 + 9) / 9))$

$$\begin{aligned}
\blacktriangleright 2528 &:= ((111 - 1) \times (1 + (11 + 11))) - 1 - 1 \\
&:= 2 + (((2 \times (22 + 2))^2) + 222) \\
&:= ((33/3 + 3)^3) - (3 + 3)^3 \\
&:= 4 \times ((4 \times (4 \times (44 - 4))) - (4 + 4)) \\
&:= (5 - 5/5) \times ((5^5 + 5 + 5)/5 + 5) \\
&:= (6 \times (6 \times (66 + 6))) - ((6 + 6)/6)^6 \\
&:= 7/7 + (7 \times (7 \times 7 \times 7 + 7) + 77) \\
&:= 8 + (((8 + 8) \times (8 \times 8 + 88)) + 88) \\
&:= 99 + ((9 \times 9 + 9) \times (9 + 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2529 &:= ((111 - 1) \times (1 + (11 + 11))) - 1 \\
&:= 22^2 + 2^{22/2} - 2/2 - 2 \\
&:= 3 \times ((3^3 \times (3^3 + 3)) + 33) \\
&:= 4 \times 4 \times (4 + 4) + (((4 - 4/4) + 4)^4) \\
&:= 5 + ((5 \times 5 - (5^5 + 5)/5) + 5^5) \\
&:= 6 + (6 \times (6 \times 66 + 6) + 666/6) \\
&:= 7 \times 7 \times 7 \times 7 + ((7 + 7)/7)^7 \\
&:= 8 \times (8 + 8) + ((8 - 8/8)^{8 \times 8 / (8 + 8)}) \\
&:= 99 + (9 \times 9 + 9) \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2530 &:= (111 - 1) \times (1 + (11 + 11)) \\
&:= 22 \times (222/2 + 2 + 2) \\
&:= 333 + (((3 \times 3 + 3/3) + 3)^3) \\
&:= (44 - 4)/4 \times ((4/4 - 4) + 4^4) \\
&:= 5 + ((5 \times (5 - 5 \times 5 \times 5)) + 5^5) \\
&:= ((66 - 6)/6) + ((6 + 6) \times (6 \times 6 \times 6 - 6)) \\
&:= 7 \times 7 \times 7 + ((7 + 7 + 7)/7)^7 \\
&:= ((8 - 8/8 + 8) + 8) \times (888 - 8)/8 \\
&:= 9/9 + ((9 \times 9 + 9) \times (9 + 9 + 9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2531 &:= 1 + ((111 - 1) \times (1 + (11 + 11))) \\
&:= 22^2 + (2^{22/2} - 2/2) \\
&:= 3 + (((33/3 + 3)^3) - (3 + 3)^3) \\
&:= (4 \times (((4/4 + 4)^4 + 4) + 4)) - 4/4 \\
&:= 5 + (((5 - 5^5)/5) + 5 \times 5) + 5^5 \\
&:= 66/6 + ((6 + 6) \times (6 \times 6 \times 6 - 6)) \\
&:= 7/7 + (((7 + 7 + 7)/7)^7 + 7 \times 7 \times 7) \\
&:= 88 + (((8 + 8) \times (8 \times 8 + 88)) + (88/8)) \\
&:= 9 + (((9 + 9) \times 99 + (99/9)) + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2532 &:= (1 + 11) \times ((1 + 1) \times 111 - 11) \\
&:= 22^2 + 2^{22/2} \\
&:= 3 + ((3 \times (3^{3+3} + 3)) + 333) \\
&:= 4 \times (((4/4 + 4)^4 + 4) + 4) \\
&:= 5^5 + (((5 + 5)/5)^5 - 5^5/5) \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 - 6)) + 6) \\
&:= 7 + ((7 \times (7 \times 7 \times 7 + 7) - ((7 + 7)/7)) + 77) \\
&:= ((8 \times (8 \times (88 - 8) - 8) + 8)/(8 + 8)/8) \\
&:= 999/9 + ((9 \times 9 + 9) \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2533 &:= 1 + ((1 + 11) \times ((1 + 1) \times 111 - 11)) \\
&:= 2/2 + (2^{22/2} + 22^2) \\
&:= 3 + (((3 \times 3 + 3/3) + 3)^3) + 333 \\
&:= 4/4 + (4 \times (((4/4 + 4)^4 + 4) + 4)) \\
&:= 5 + ((5 - 5/5) \times ((5^5 + 5 + 5)/5 + 5)) \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 - 6)) + 6/6) + 6 \\
&:= 7 + ((7 \times (7 \times 7 \times 7 + 7) - 7/7) + 77) \\
&:= 8 + (((8 - 88/8) + 8) \times ((8 \times 8 \times 8 - 8) + 8/8)) \\
&:= ((9/9 + 9 \times 9) \times ((99 + 99)/9 + 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2534 &:= 1 + (1 + ((1 + 11) \times ((1 + 1) \times 111 - 11))) \\
&:= 2 + (2^{22/2} + 22^2) \\
&:= 3 + (((33/3 + 3)^3) - (3 + 3)^3) + 3 \\
&:= 4 + ((44 - 4)/4 \times ((4/4 - 4) + 4^4)) \\
&:= 5 + (((5 \times 5 - (5^5 + 5)/5) + 5^5) + 5) \\
&:= 6 + ((6 \times (6 \times (66 + 6))) - ((6 + 6)/6)^6) \\
&:= 7 + (7 \times (7 \times 7 \times 7 + 7) + 77) \\
&:= 8 + (((8888 - 8)/8 + 88 \times (8 + 8)) + 8) \\
&:= ((9 + 9) \times (9 + 9 + 9)) + (((9 + 9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2535 &:= (1 + 1 + 11) \times ((1 + 1 + 1 + 11)^{1+1} - 1) \\
&:= 2 + ((2^{22/2} + 22^2) + 2/2) \\
&:= 3 + (((3 - 3/3)^{3 \times 3}) + 333) \\
&:= (4^4 + 4)/4 \times (44 - (4/4 + 4)) \\
&:= 5 + (((5 \times (5 - 5 \times 5 \times 5)) + 5^5) + 5) \\
&:= (6 - 6/6) \times (666/6 + 6 \times 66) \\
&:= 7 + ((7 \times (7 \times 7 \times 7 + 7) + 77) + 7/7) \\
&:= 8 + ((8888/8 + 88 \times (8 + 8)) + 8) \\
&:= 999 + (((9 + 9 + 9)/9) \times (((9 + 9)/9)^9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2536 &:= 1 + (1 + 1 + 11) \times ((1 + 1 + 1 + 11)^{1+1} - 1) \\
&:= 2 + ((2^{22/2} + 22^2) + 2) \\
&:= 3 + (((3 \times 3 + 3/3) + 3)^3) + 333 + 3 \\
&:= 4 + (4 \times (((4/4 + 4)^4 + 4) + 4)) \\
&:= 5 \times 5 + (((55 - 5^5)/5) + 5^5) \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 - 6)) + ((66 - 6)/6)) \\
&:= 7 + (7 \times 7 \times 7 \times 7 + ((7 + 7)/7)^7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 + 88)) + 88) + 8 \\
&:= 999 + ((9 \times (9 \times (9 + 9) + 9)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2537 &:= (11 \times (11 \times (11 + (11 - 1)))) - 1 - 1 - 1 - 1 \\
&:= ((22/2)^2 \times (22 - 2/2)) - 2 - 2 \\
&:= 3 \times 3 + (((33/3 + 3)^3) - (3 + 3)^3) \\
&:= (44 - 4/4) \times (((4^4 - 4)/4) - 4) \\
&:= 5 + (((5 + 5)/5)^5 - 5^5/5) + 5^5 \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 - 6)) + (66/6)) \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 7 \times 7 \times 7) \\
&:= 8 + (((8 - 8/8)^{8 \times 8 / (8 + 8)}) + 8 \times (8 + 8)) \\
&:= 999 + ((9 \times (9 \times (9 + 9) + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2538 &:= (11 \times (11 \times (11 + (11 - 1)))) - 1 - 1 - 1 \\
&:= 2 + (((2^{22/2} + 22^2) + 2) + 2) \\
&:= (3 \times 33 \times 33) - 3^{3+3} \\
&:= ((4^4 \times (4 \times 4 + 4)) - 44)/((4 + 4)/4) \\
&:= 5^5 - (((5 + 5)/5)^5 + 555) \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 - 6)) + 6) + 6 \\
&:= 77 + (7 \times (7 \times 7 \times 7 + 7) + (77/7)) \\
&:= 8 + (((8 - 8/8 + 8) + 8) \times (888 - 8)/8) \\
&:= 999 + (9 \times (9 \times (9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2539 &:= (11 \times (11 \times (11 + (11 - 1)))) - 1 - 1 \\
&:= ((22/2)^2 \times (22 - 2/2)) - 2 \\
&:= 3/3 + ((3 \times 33 \times 33) - 3^{3+3}) \\
&:= 4 + ((4^4 + 4)/4 \times (44 - (4/4 + 4))) \\
&:= ((5 - 5/5) \times ((55 + 5^5)/5)) - 5 \\
&:= (6 \times ((6 \times (66 + 6)) - 6)) - (66/6 + 6) \\
&:= 77 + (7 \times (7 \times 7 \times 7 + 7) + (77 + 7)/7) \\
&:= 88 + ((88/8 + 8) \times (8 \times (8 + 8) + 8/8)) \\
&:= 9/9 + ((9 \times (9 \times (9 + 9) + 9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2540 &:= (11 \times (11 \times (11 + (11 - 1)))) - 1 \\
&:= (2 - 22) \times ((2 - 2^{2 \times (2+2)})/2) \\
&:= (3 \times 3 + 3/3) \times ((3^{3+3} + 33)/3) \\
&:= 44 + ((4 \times (4/4 + 4)^4) - 4) \\
&:= 5^5 - ((555 + 5 \times 5) + 5) \\
&:= ((66 + 6/6) \times ((6 + 6)/6 + 6 \times 6)) - 6 \\
&:= (7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) - (7/7 + 7) \\
&:= ((88 + 8)/8 + 8) \times (8 \times (8 + 8) - 8/8) \\
&:= (9/9 + 9) \times (9 \times (9 + 9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2541 &:= 11 \times (11 \times (11 + (11 - 1))) \\
&:= (22/2)^2 \times (22 - 2/2) \\
&:= 33 \times (3 \times 3^3 - (3/3 + 3)) \\
&:= 4 + ((44 - 4/4) \times (((4^4 - 4)/4) - 4)) \\
&:= 5 + (((55 - 5^5)/5) + 5 \times 5) + 5^5 \\
&:= (6/6 + 6) \times 66 \times 66 / (6 + 6) \\
&:= (7 + 7 + 7) \times (((7 + 7)/7)^7 - 7) \\
&:= 888 + ((88/8 + 8) \times (88 - 8/8)) \\
&:= 999/9 + (9 \times 9 + 9) \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2542 &:= 1 + (11 \times (11 \times (11 + (11 - 1)))) \\
&:= 2 + ((2 - 22) \times ((2 - 2^{2 \times (2+2)})/2)) \\
&:= 3/3 + (33 \times (3 \times 3^3 - (3/3 + 3))) \\
&:= 44 + ((4 \times (4/4 + 4)^4) - (4 + 4)/4) \\
&:= 5^5 + (55/5 \times ((5 + 5)/5 - 55)) \\
&:= 66 + (6 \times (6 \times 66 + 6) + ((6 + 6)/6)^6) \\
&:= 7/7 + ((7 + 7 + 7) \times (((7 + 7)/7)^7 - 7)) \\
&:= ((8 + 8)/8) \times ((8 + 8) \times (88 - 8) - (8/8 + 8)) \\
&:= (9/9 + 9 \times 9) \times (((99 + 99)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2543 &:= 1 + (1 + (11 \times (11 \times (11 + (11 - 1)))))) \\
&:= 2 + ((22/2)^2 \times (22 - 2/2)) \\
&:= ((33/3 + 3)^3) - (33 \times (3 + 3) + 3) \\
&:= 44 + ((4 \times (4/4 + 4)^4) - 4/4) \\
&:= 5 + (5^5 - (((5 + 5)/5)^5 + 555)) \\
&:= (6 \times ((6 \times (66 + 6)) - 6)) - (6/6 + 6 + 6) \\
&:= 7 + ((7 \times 7 \times 7 \times 7 + ((7 + 7)/7)^7) + 7) \\
&:= 888/8 + ((8 + 8) \times (8 \times 8 + 88)) \\
&:= ((99/9) \times (9 \times (9 + 9 + 9) - (99/9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2544 &:= (1 + 11) \times (1 + ((1 + 1) \times 111 - 11)) \\
&:= 2 \times ((2 + 2 + 2)^{2+2} - (22 + 2)) \\
&:= 3 + (33 \times (3 \times 3^3 - (3/3 + 3))) \\
&:= 4 \times ((4 \times (4 \times (44 - 4))) - 4) \\
&:= (5 - 5/5) \times ((55 + 5^5)/5) \\
&:= (6 \times ((6 \times (66 + 6)) - 6)) - 6 - 6 \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 7 \times 7 \times 7) + 7) \\
&:= (8 + 8) \times (((88 - 8/8) + 8 \times 8) + 8) \\
&:= 99 \times (9 + 9 + 9) - ((999/9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2545 &:= 1 + ((1 + 11) \times (1 + ((1 + 1) \times 111 - 11))) \\
&:= 2 + (((22/2)^2 \times (22 - 2/2)) + 2) \\
&:= (3 - 3/3 + 3) \times (((3 - 3/3)^{3 \times 3}) - 3^3) \\
&:= 44 + ((4 \times (4/4 + 4)^4) + 4/4) \\
&:= 5^5 - (555 + 5 \times 5) \\
&:= (6 \times ((6 \times (66 + 6)) - 6)) - 66/6 \\
&:= 7 + ((7 \times (7 \times 7 \times 7 + 7) + (77/7)) + 77) \\
&:= (888/8 \times ((8 - 8/8 + 8) + 8)) - 8 \\
&:= 9 \times 9 \times (9 + 9) + (((99 \times 99) - (9 + 9))/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2546 &:= 1 + (1 + ((1 + 11) \times (1 + ((1 + 1) \times 111 - 11)))) \\
&:= 2222 + ((2^{2+2} + 2)^2) \\
&:= ((33/3 + 3)^3) - 33 \times (3 + 3) \\
&:= ((44 - 4)/4 \times (4^4 - 4/4)) - 4 \\
&:= 5^5 + (5/5 - (555 + 5 \times 5)) \\
&:= (66 + 6/6) \times ((6 + 6)/6 + 6 \times 6) \\
&:= (7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) - (7 + 7)/7 \\
&:= ((8 + 8)/8) \times (((8 + 8) \times (88 - 8) - 8) + 8/8) \\
&:= 9 \times 9 \times (9 + 9) + (((99 \times 99) - 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2547 &:= (1 + 1) \times (11^{1+1+1} - 1 - 1) - 111 \\
&:= (22^2 + 2)/2 + ((2 \times (22 + 2))^2) \\
&:= (33 \times (3 \times 3^3 - 3)) - 3^3 \\
&:= 4 + (((4 \times (4/4 + 4)^4) - 4/4) + 44) \\
&:= 55 + ((5 - 5/5) \times (5^5 - 5 - 5)/5) \\
&:= 6 + ((6/6 + 6) \times 66 \times 66/(6 + 6)) \\
&:= (7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) - 7/7 \\
&:= (((8 - 88/8) + 8) \times (8 \times 8 \times 8 - 8/8)) - 8 \\
&:= 9 + ((9 \times (9 \times (9 + 9) + 9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2548 &:= (1 + 1 + 11) \times (1 + 1 + 1 + 11)^{1+1} \\
&:= 2 \times ((2 + 2 + 2)^{2+2} - 22) \\
&:= (3^3 - 3/3) \times (3 \times 33 - 3/3) \\
&:= 4 + ((4 \times (4/4 + 4)^4) + 44) \\
&:= (5 - 5/5) \times ((55 + 5^5 + 5)/5) \\
&:= (6 \times ((6 \times (66 + 6)) - 6)) - ((6 + 6)/6 + 6) \\
&:= 7 \times ((7 \times 7 \times 7 + 7 + 7) + 7) \\
&:= (((8 \times 8 \times (88 - 8)) - 8)/(8 + 8)/8) - 8 \\
&:= (99 - 9/9) \times (((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2549 &:= ((1 + 1) \times (11^{1+1+1} - 1)) - 111 \\
&:= 2/2 + (2 \times ((2 + 2 + 2)^{2+2} - 22)) \\
&:= 3 + (((33/3 + 3)^3) - 33 \times (3 + 3)) \\
&:= (4^4 \times (44 - 4) - 44)/4 \\
&:= 5 + ((5 - 5/5) \times ((55 + 5^5)/5)) \\
&:= (6 \times ((6 \times (66 + 6)) - 6)) - 6/6 - 6 \\
&:= 7/7 + (7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) \\
&:= (8 \times ((8 + 8) \times (8 + 8) + 8 \times 8)) - 88/8 \\
&:= 9 + ((9/9 + 9) \times (9 \times (9 + 9 + 9) + (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2550 &:= (11 - 1) \times (111 + (1 + 11)^{1+1}) \\
&:= 2 + (2 \times ((2 + 2 + 2)^{2+2} - 22)) \\
&:= 3 + ((33 \times (3 \times 3^3 - 3)) - 3^3) \\
&:= (44 - 4)/4 \times (4^4 - 4/4) \\
&:= (5 + 5) \times (5 \times 5 \times (5 + 5) + 5) \\
&:= (6 \times ((6 \times (66 + 6)) - 6)) - 6 \\
&:= (7/7 + 7 \times 7) \times ((7 + 7)/7 + 7 \times 7) \\
&:= (((8 + 8)/8) + 8) \times ((8 + 8) \times (8 + 8) - 8/8) \\
&:= 9 + ((9 \times 9 + 9) \times (9 + 9 + 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2551 &:= ((1 + 1) \times 11^{1+1+1}) - 111 \\
&:= ((22 + 2/2) \times 222/2) - 2 \\
&:= 3 + ((3^3 - 3/3) \times (3 \times 33 - 3/3)) \\
&:= ((4^4 \times (44 - 4) - 4)/4) - 4 - 4 \\
&:= 55 + (((5 - 5^5)/5) - 5) + 5^5 \\
&:= 6/6 + ((6 \times ((6 \times (66 + 6)) - 6)) - 6) \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 7 \times 7 \times 7) + 7) + 7) \\
&:= (8 \times ((8 + 8) \times (8 + 8) + 8 \times 8)) - (8/8 + 8) \\
&:= ((9/9 + 9) \times (((9 + 9)/9)^{9-9/9})) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2552 &:= 11 \times (111 + 11^{1+1}) \\
&:= 2 \times (((2 + 2 + 2)^{2+2} - 22) + 2) \\
&:= 33/3 \times ((3^{3+3} - 33)/3) \\
&:= (4 + 4) \times (((4^4 - 4)/4) + 4^4) \\
&:= 55 + (((5 - 5^5) + 5)/5) - 5 + 5^5 \\
&:= 6 + ((66 + 6/6) \times ((6 + 6)/6 + 6 \times 6)) \\
&:= 77/7 \times (7 \times 7 \times 7 - 777/7) \\
&:= (8 \times ((8 + 8) \times (8 + 8) + 8 \times 8)) - 8 \\
&:= 99/9 \times (9 \times (9 + 9 + 9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2553 &:= 111 \times (1 + (11 + 11)) \\
&:= (22 + 2/2) \times 222/2 \\
&:= ((3 \times 3 + 3) \times ((3 + 3)^3 - 3)) - 3 \\
&:= 4 + ((4^4 \times (44 - 4) - 44)/4) \\
&:= 55 + (5^5 - (5^5 + 5 + 5)/5) \\
&:= 666/6 \times ((66/6 + 6) + 6) \\
&:= 777/7 \times (((7 + 7)/7 + 7) + 7) + 7) \\
&:= 888/8 \times ((8 - 8/8 + 8) + 8) \\
&:= 999/9 \times ((99 + 99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2554 &:= 1 + (111 \times (1 + (11 + 11))) \\
&:= 22 + (2^{22/2} + 22^2) \\
&:= 3/3 + (((3 \times 3 + 3) \times ((3 + 3)^3 - 3)) - 3) \\
&:= 4 + ((44 - 4)/4 \times (4^4 - 4/4)) \\
&:= 55 + (5^5 - (5^5 + 5)/5) \\
&:= (6 \times ((6 \times (66 + 6)) - 6)) - (6 + 6)/6 \\
&:= 7 + ((7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) - 7/7) \\
&:= 8/8 + (888/8 \times ((8 - 8/8 + 8) + 8)) \\
&:= ((9 - 999)/9) + (99 \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2555 &:= 1 + (1 + (111 \times (1 + (11 + 11)))) \\
&:= 2 + ((22 + 2/2) \times 222/2) \\
&:= ((3 \times 3 + 3) \times ((3 + 3)^3 - 3)) - 3/3 \\
&:= ((4^4 \times (44 - 4) - 4)/4) - 4 \\
&:= 55 + (5^5 - 5^5/5) \\
&:= (6 \times ((6 \times (66 + 6)) - 6)) - 6/6 \\
&:= 7 + (7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) \\
&:= ((8 - 88/8) + 8) \times (8 \times 8 \times 8 - 8/8) \\
&:= 9 + (((99 \times 99) - 9)/9) + 9 \times 9 \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2556 &:= 1 + (1 + (1 + (111 \times (1 + (11 + 11)))))) \\
&:= 2 \times (((22 - 2) \times 2^{2+2+2}) - 2) \\
&:= (3 \times 3 + 3) \times ((3 + 3)^3 - 3) \\
&:= (4 \times (4 \times (4 \times (44 - 4)))) - 4 \\
&:= 55 + (((5 - 5^5)/5) + 5^5) \\
&:= 6 \times ((6 \times (66 + 6)) - 6) \\
&:= 7 + ((7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) + 7/7) \\
&:= ((8 \times 8 \times (88 - 8)) - 8)/(8 + 8)/8) \\
&:= 99 + (9 \times 9 \times (9 + 9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2557 &:= 1 + (1 + (1 + (1 + (111 \times (1 + (11 + 11)))))) \\
&:= 2 + (((22 + 2/2) \times 222/2) + 2) \\
&:= 3/3 + ((3 \times 3 + 3) \times ((3 + 3)^3 - 3)) \\
&:= ((4^4 \times (44 - 4) + 4)/4) - 4 \\
&:= 55 + (((5 - 5^5) + 5)/5) + 5^5 \\
&:= 6/6 + (6 \times ((6 \times (66 + 6)) - 6)) \\
&:= 7 + ((7/7 + 7 \times 7) \times ((7 + 7)/7 + 7 \times 7)) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 + 8) + 8 \times 8)) - (88/8)) \\
&:= 9 + ((99 - 9/9) \times (((9 - 9/9) + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2558 &:= (1+1)^{11} + ((1+1)^{11-1-1} - (1+1)) \\
&:= (2 \times ((22-2) \times 2^{2+2+2})) - 2 \\
&:= 3 + (((3 \times 3 + 3) \times ((3+3)^3 - 3)) - 3/3) \\
&:= (4^4 \times (44-4) - (4+4))/4 \\
&:= 5^5 - (((55+5)/5) + 555) \\
&:= (6+6)/6 + (6 \times ((6 \times (66+6)) - 6)) \\
&:= 77 + (((7+7+7)/7)^7 + 7 \times (7 \times 7 - 7)) \\
&:= ((8+8)/8) \times ((8+8) \times (88-8) - 8/8) \\
&:= 9 \times 9 \times (9+9) + ((99/9) \times (9/9+99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2559 &:= (1+1)^{11} + ((1+1)^{11-1-1} - 1) \\
&:= (((22-2) \times 2^{2 \times (2+2)}) - 2)/2 \\
&:= 3 + ((3 \times 3 + 3) \times ((3+3)^3 - 3)) \\
&:= (4^4 \times (44-4) - 4)/4 \\
&:= 5^5 - (555 + (55/5)) \\
&:= 6 + (666/6 \times ((66/6+6) + 6)) \\
&:= 77/7 + (7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) \\
&:= (8 \times ((8+8) \times (8+8) + 8 \times 8)) - 8/8 \\
&:= 9 \times 9 \times (9+9) + (((9999-9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2560 &:= (11-1) \times (1+1)^{(1+1) \times (1+1+1)} \\
&:= 2 \times ((22-2) \times 2^{2+2+2}) \\
&:= (3-3/3+3) \times ((3-3/3)^{3 \times 3}) \\
&:= 4 \times (4 \times (4 \times (44-4))) \\
&:= 5^5 - (555 + 5 + 5) \\
&:= 6 + ((6 \times ((6 \times (66+6)) - 6)) - ((6+6)/6)) \\
&:= ((7+7)/7)^7 \times ((7-7/7+7) + 7) \\
&:= 8 \times ((8+8) \times (8+8) + 8 \times 8) \\
&:= (9/9+9) \times (((9+9)/9)^{9-9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2561 &:= 1 + (11-1) \times (1+1)^{(1+1)^{1+1+1}} \\
&:= (((22-2) \times 2^{2 \times (2+2)}) + 2)/2 \\
&:= 33 + (((33/3+3)^3) - (3+3)^3) \\
&:= (4^4 \times (44-4) + 4)/4 \\
&:= 5 + (((5-5^5)/5) + 55) + 5^5 \\
&:= 6 + ((6 \times ((6 \times (66+6)) - 6)) - 6/6) \\
&:= 777/7 + 7 \times (7 \times 7 \times 7 + 7) \\
&:= 8/8 + (8 \times ((8+8) \times (8+8) + 8 \times 8)) \\
&:= 99 \times (9+9+9) - ((999+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2562 &:= (11 + (11-1)) \times (1 + 11^{1+1}) \\
&:= 2 + (2 \times ((22-2) \times 2^{2+2+2})) \\
&:= 3 + (((3 \times 3 + 3) \times ((3+3)^3 - 3)) + 3) \\
&:= ((4^4 \times (44-4) + 4) + 4)/4 \\
&:= 5 + (((5-5^5) + 5)/5) + 55 + 5^5 \\
&:= 6 + (6 \times ((6 \times (66+6)) - 6)) \\
&:= 7 + ((7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) + 7) \\
&:= (8+8)/8 + (8 \times ((8+8) \times (8+8) + 8 \times 8)) \\
&:= 99 \times (9+9+9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2563 &:= 11 \times (11 + (1+1) \times 111) \\
&:= 22/2 \times (222 + 22/2) \\
&:= (33 \times (3 \times 3^3 - 3)) - 33/3 \\
&:= 4 + ((4^4 \times (44-4) - 4)/4) \\
&:= 5^5 - ((555 + (5+5)/5) + 5) \\
&:= 6 + ((6 \times ((6 \times (66+6)) - 6)) + 6/6) \\
&:= 7 + (((7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) + 7/7) + 7) \\
&:= 8 + (((8-88/8) + 8) \times (8 \times 8 \times 8 - 8/8)) \\
&:= 99/9 \times (9 \times (9+9+9) - (9/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2564 &:= 1 + (11 \times (11 + (1+1) \times 111)) \\
&:= 2 \times (((22-2) \times 2^{2+2+2}) + 2) \\
&:= ((3-33)/3) + (33 \times (3 \times 3^3 - 3)) \\
&:= 4 + (4 \times (4 \times (4 \times (44-4)))) \\
&:= 5^5 - ((555 + 5/5) + 5) \\
&:= 6 + ((6 \times ((6 \times (66+6)) - 6)) + ((6+6)/6)) \\
&:= 7 + (((7/7+7 \times 7) \times ((7+7)/7+7 \times 7)) + 7) \\
&:= ((8 \times 8 \times (88-8)) + 8)/(8+8)/8 \\
&:= 99 \times (9+9+9) - (9/9+99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2565 &:= 1 + (1 + (11 \times (11 + (1+1) \times 111))) \\
&:= 2 + (22/2 \times (222 + 22/2)) \\
&:= 3 \times 3 \times (3 \times (3 \times 33 - 3) - 3) \\
&:= 4 + ((4^4 \times (44-4) + 4)/4) \\
&:= 5^5 - (555 + 5) \\
&:= 6 + ((666/6 \times ((66/6+6) + 6)) + 6) \\
&:= ((77+7)/7+7) \times (((7+7)/7)^7 + 7) \\
&:= (88/8+8) \times ((8 \times (8+8) - 8/8) + 8) \\
&:= 99 \times (9+9+9) - (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2566 &:= 1 + (1 + (1 + (11 \times (11 + (1+1) \times 111)))) \\
&:= (2 \times ((2+2+2)^{2+2} - 2)) - 22 \\
&:= 3 + ((33 \times (3 \times 3^3 - 3)) - 33/3) \\
&:= 4 + (((4^4 \times (44-4) + 4) + 4)/4) \\
&:= 5^5 + (5/5 - (555 + 5)) \\
&:= ((66-6)/6) + (6 \times ((6 \times (66+6)) - 6)) \\
&:= 7 + ((7 \times ((7 \times 7 \times 7 + 7 + 7) + 7)) + (77/7)) \\
&:= 8 + (((8+8)/8) \times ((8+8) \times (88-8) - 8/8)) \\
&:= 9/9 + (99 \times (9+9+9) - (99+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2567 &:= 1111 + ((1+1+11) \times (1+111)) \\
&:= 2 + ((22/2 \times (222 + 22/2)) + 2) \\
&:= 33/3 + ((3 \times 3 + 3) \times ((3+3)^3 - 3)) \\
&:= 4 + (((4^4 \times (44-4) - 4)/4) + 4) \\
&:= 5^5 + ((5+5)/5 - (555 + 5)) \\
&:= 66/6 + (6 \times ((6 \times (66+6)) - 6)) \\
&:= 7 + (((7+7)/7)^7 \times ((7-7/7+7) + 7)) \\
&:= 8 + ((8 \times ((8+8) \times (8+8) + 8 \times 8)) - 8/8) \\
&:= ((9-9/9) + 9) \times (9 \times (9+9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2568 &:= (1+1) \times ((1+11) \times (111 - (1+1+1+1))) \\
&:= 2 \times (2 \times (22-2)^2 + 22^2) \\
&:= (33 \times (3 \times 3^3 - 3)) - 3 - 3 \\
&:= 4 + ((4 \times (4 \times (4 \times (44-4)))) + 4) \\
&:= 5^5 - (555 + (5+5)/5) \\
&:= 6 + ((6 \times ((6 \times (66+6)) - 6)) + 6) \\
&:= 7 + (7 \times (7 \times 7 \times 7 + 7) + 777/7) \\
&:= 8 + (8 \times ((8+8) \times (8+8) + 8 \times 8)) \\
&:= 9 \times 9 \times (9+9) + ((9999-9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2569 &:= (11-1) \times (1 + (1+1)^{(1+1)^{1+1+1}}) - 1 \\
&:= (2 \times (2+2+2)^{2+2}) - (22+2/2) \\
&:= 3/3 + ((33 \times (3 \times 3^3 - 3)) - (3+3)) \\
&:= 4 + (((4^4 \times (44-4) + 4)/4) + 4) \\
&:= 5^5 - (555 + 5/5) \\
&:= 6 + (((6 \times ((6 \times (66+6)) - 6)) + 6/6) + 6) \\
&:= 77 + ((7 \times (7 \times 7 \times 7 + 7 + 7)) - 7) \\
&:= 8 + ((8 \times ((8+8) \times (8+8) + 8 \times 8)) + 8/8) \\
&:= 9 \times 9 \times (9+9) + 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2570 &:= (11-1) \times (1 + (1+1)^{(1+1)^{1+1+1}}) \\
&:= (2 \times (2+2+2)^{2+2}) - 22 \\
&:= (33 \times (3 \times 3^3 - 3)) - (3/3+3) \\
&:= (44-4)/4 \times (4/4+4^4) \\
&:= 5^5 - 555 \\
&:= 6666 - (((6+6)/6)^{6+6}) \\
&:= 77 + (((7/7+7 \times 7)^{(7+7)/7}) - 7) \\
&:= (((8+8)/8) + 8) \times ((8+8) \times (8+8) + 8/8) \\
&:= 9 \times 9 \times (9+9) + (9999+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2571 &:= (11-1) \times (1 + (1+1)^{(1+1)^{1+1+1}}) + 1 \\
&:= 2/2 + ((2 \times (2+2+2)^{2+2}) - 22) \\
&:= (33 \times (3 \times 3^3 - 3)) - 3 \\
&:= (4^4 \times (44-4) + 44)/4 \\
&:= 5^5 + (5/5 - 555) \\
&:= ((66 \times (66+6+6)) - 6)/(6+6)/6 \\
&:= ((7+7)/7)^7 + (7 \times (7 \times 7 \times 7 + 7) - 7) \\
&:= 88/8 + (8 \times ((8+8) \times (8+8) + 8 \times 8)) \\
&:= 9 + (99 \times (9+9+9) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2572 &:= (11 \times (1 + (11 + (1+1) \times 111))) - 1 - 1 \\
&:= 2 + ((2 \times (2+2+2)^{2+2}) - 22) \\
&:= 3/3 + ((33 \times (3 \times 3^3 - 3)) - 3) \\
&:= (4 \times ((4 \times (4 \times (44-4))) + 4)) - 4 \\
&:= 5^5 + ((5+5)/5 - 555) \\
&:= 6 + ((6 \times ((6 \times (66+6)) - 6)) + ((66-6)/6)) \\
&:= 7 \times (7 \times 7 + 7) + (((7+7+7)/7)^7 - 7) \\
&:= 8 + (((8 \times 8 \times (88-8)) + 8)/(8+8)/8) \\
&:= 99 \times (9+9+9) - ((9+9)/9+99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2573 &:= (11 \times (1 + (11 + (1 + 1) \times 111))) - 1 \\
&:= (22 \times ((22/2)^2 - (2 + 2))) - 2/2 \\
&:= (33 \times (3 \times 3^3 - 3)) - 3/3 \\
&:= 4 \times 44 + (((4 - 4/4) + 4^4) - 4) \\
&:= 5 + (5^5 - (555 + (5 + 5)/5)) \\
&:= 6 + ((6 \times ((6 \times (66 + 6)) - 6)) + (66/6)) \\
&:= 7 \times 77 + (((7 + 7)/7)^{77/7} - (7 + 7)) \\
&:= 8 + ((88/8 + 8) \times ((8 \times (8 + 8) - 8/8) + 8)) \\
&:= 99 \times (9 + 9 + 9) - (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2574 &:= 11 \times (1 + (11 + (1 + 1) \times 111)) \\
&:= 22 \times ((22/2)^2 - (2 + 2)) \\
&:= 33 \times (3 \times 3^3 - 3) \\
&:= 4 + ((44 - 4)/4 \times (4/4 + 4^4)) \\
&:= 5 + (5^5 - (555 + 5/5)) \\
&:= 66 \times ((66 \times 6/(6 + 6)) + 6) \\
&:= 7 + (((7 + 7)/7)^7 \times ((7 - 7/7 + 7) + 7)) + 7 \\
&:= ((8 + 8)/8) \times (((8 + 8) \times (88 - 8) - 8/8) + 8) \\
&:= 99 \times ((9 - 9/9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2575 &:= ((1 + 111) \times (1 + (11 + 11))) - 1 \\
&:= 22 + ((22 + 2/2) \times 222/2) \\
&:= 3/3 + (33 \times (3 \times 3^3 - 3)) \\
&:= 4 + ((4^4 \times (44 - 4) + 44)/4) \\
&:= 5 + (5^5 - 555) \\
&:= (6 \times (6 \times (66 + 6))) - (66/6 + 6) \\
&:= 77 + ((7 \times (7 \times 7 \times 7 + 7 + 7)) - 7/7) \\
&:= (8/8 + 8 + 8 + 8) \times (888/8 - 8) \\
&:= 9/9 + (99 \times ((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2576 &:= (1 + 111) \times (1 + (11 + 11)) \\
&:= 2 + (22 \times ((22/2)^2 - (2 + 2))) \\
&:= 3 + ((33 \times (3 \times 3^3 - 3)) - 3/3) \\
&:= 4 \times ((4 \times (4 \times (44 - 4))) + 4) \\
&:= 5 + ((5^5 - 555) + 5/5) \\
&:= 6 + (6666 - (((6 + 6)/6)^{6+6})) \\
&:= 77 + (7 \times (7 \times 7 \times 7 + 7 + 7)) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 + 8) + 8 \times 8)) + 8) \\
&:= (9 + 9)/9 + (99 \times ((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2577 &:= 1 + ((1 + 111) \times (1 + (11 + 11))) \\
&:= 2^{22/2} + ((22 + 2/2)^2) \\
&:= 3 + (33 \times (3 \times 3^3 - 3)) \\
&:= 4 \times 44 + (((4 - 4/4) + 4^4) \\
&:= 5 + (((5 + 5)/5 - 555) + 5^5) \\
&:= ((66 \times (66 + 6 + 6)) + 6)/((6 + 6)/6) \\
&:= 77 + ((7/7 + 7 \times 7)^{(7+7)/7}) \\
&:= 8 + (((8 \times ((8 + 8) \times (8 + 8) + 8 \times 8)) + 8/8) + 8) \\
&:= 9 + (((9999 - 9)/9) + 9 \times 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2578 &:= 1 + (1 + ((1 + 111) \times (1 + (11 + 11)))) \\
&:= 2 + ((22 \times ((22/2)^2 - (2 + 2))) + 2) \\
&:= 3 + ((33 \times (3 \times 3^3 - 3)) + 3/3) \\
&:= 4 + (((44 - 4)/4 \times (4/4 + 4^4)) + 4) \\
&:= 5 + ((5^5 - (555 + (5 + 5)/5)) + 5) \\
&:= ((6 + 6)/6) \times (6 \times 6 \times 6 \times 6 - (6/6 + 6)) \\
&:= ((7 + 7)/7)^7 + 7 \times (7 \times 7 \times 7 + 7) \\
&:= 8 + (((8 + 8)/8) + 8) \times ((8 + 8) \times (8 + 8) + 8/8) \\
&:= 9 + (9999/9 + 9 \times 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2579 &:= 1 + (1 + (1 + ((1 + 111) \times (1 + (11 + 11)))))) \\
&:= 2 + (((22 + 2/2)^2) + 2^{22/2}) \\
&:= 3 + (((33 \times (3 \times 3^3 - 3)) - 3/3) + 3) \\
&:= 4 + (((4^4 \times (44 - 4) + 44)/4) + 4) \\
&:= 5 + ((5^5 - (555 + 5/5)) + 5) \\
&:= (6 \times (6 \times (66 + 6))) - (6/6 + 6 + 6) \\
&:= 7 \times (7 \times 7 + 7) + ((7 + 7 + 7)/7)^7 \\
&:= 8 + ((8 \times ((8 + 8) \times (8 + 8) + 8 \times 8)) + (88/8)) \\
&:= 9 + ((9999 + 9)/9 + 9 \times 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2580 &:= (11 - 1) \times (1 + 1 + (1 + 1)^{(1+1)^{1+1+1}}) \\
&:= 2 \times ((2 + 2 + 2)^{2+2} - (2 + 2 + 2)) \\
&:= 3 + ((33 \times (3 \times 3^3 - 3)) + 3) \\
&:= 4 + (4 \times ((4 \times (4 \times (44 - 4))) + 4)) \\
&:= 5 + ((5^5 - 555) + 5) \\
&:= (6 + 6) \times (6 \times 6 \times 6 - 6/6) \\
&:= 7 \times 77 + (((7 + 7)/7)^{77/7} - 7) \\
&:= ((88 + 8)/8 + 8) \times (8 \times (8 + 8) + 8/8) \\
&:= (99/9 + 9) \times ((999/9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2581 &:= ((1 + 1) \times ((1 + 1 + 1) \times (1 + 11)))^{1+1} - 11 \\
&:= (2 \times (2 + 2 + 2)^{2+2}) - 22/2 \\
&:= (3^3 \times (3 \times 33 - 3)) - 33/3 \\
&:= 4 + (((4 - 4/4) + 4^4) + 4 \times 44) \\
&:= 5^5 + (55/5 - 555) \\
&:= (6 \times (6 \times (66 + 6))) - 66/6 \\
&:= 7777/7 + ((7 + 7) \times (7 \times (7 + 7) + 7)) \\
&:= (8/8 - 88 \times 88)/(8 - 88/8) \\
&:= (99/9 + 9 + 9) \times ((9 \times 9 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2582 &:= (11 + 11 - 1) \times (1 + 1 + 11^{1+1}) - 1 \\
&:= ((2 \times 2 \times 22)^2 + 2)/(2/2 + 2) \\
&:= ((33/3 + 3)^3) - (3 + 3) \times 3^3 \\
&:= ((4^4 \times (4 \times 4 + 4)) + 44)/((4 + 4)/4) \\
&:= 5^5 + (((55 + 5)/5) - 555) \\
&:= (6 - 66)/6 + (6 \times (6 \times (66 + 6))) \\
&:= 7 + (((7 \times (7 \times 7 \times 7 + 7 + 7)) - 7/7) + 77) \\
&:= ((8 + 8)/8) \times ((8 + 8) \times (88 - 8) + (88/8)) \\
&:= 9 + (99 \times (9 + 9 + 9) - (9/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2583 &:= (11 + (11 - 1)) \times (1 + (1 + 11^{1+1})) \\
&:= (22 - 2/2) \times ((22/2)^2 + 2) \\
&:= 3 \times ((33 \times (3^3 - 3/3)) + 3) \\
&:= ((4^4 - 4)/4) \times ((4/4 - 4) + 44) \\
&:= 5^5 + ((55 + 5 + 5)/5 - 555) \\
&:= 6 \times 66 + ((6 \times 6/(6 + 6))^{6+6}) \\
&:= 7 + ((7 \times (7 \times 7 \times 7 + 7 + 7)) + 77) \\
&:= ((8/8 + 8 + 8) \times (8 \times 8 + 88)) - 8/8 \\
&:= 9 + (99 \times ((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2584 &:= (11 \times (11 + ((1 + 1) \times (1 + 11)))) - 1 \\
&:= 2 \times ((2 + 2 + 2)^{2+2} - (2 + 2)) \\
&:= 3 + ((3^3 \times (3 \times 33 - 3)) - 33/3) \\
&:= 4 + ((4 \times ((4 \times (4 \times (44 - 4))) + 4)) + 4) \\
&:= 5 + (((5^5 - (555 + 5/5)) + 5) + 5) \\
&:= (6 \times (6 \times (66 + 6))) - ((6 + 6)/6 + 6) \\
&:= 7 + (((7/7 + 7 \times 7)^{(7+7)/7}) + 77) \\
&:= (8/8 + 8 + 8) \times (8 \times 8 + 88) \\
&:= (9 - 9/9) \times ((9 + 9) \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2585 &:= 11 \times (11 + ((1 + 1) \times (1 + 11))) \\
&:= 2 + ((22 - 2/2) \times ((22/2)^2 + 2)) \\
&:= 33/3 + (33 \times (3 \times 3^3 - 3)) \\
&:= 4 + (((4 - 4/4) + 4^4) + 4 \times 44) + 4 \\
&:= 5 + (((5^5 - 555) + 5) + 5) \\
&:= (6 \times (6 \times (66 + 6))) - 6/6 - 6 \\
&:= 7 + (7 \times (7 \times 7 \times 7 + 7) + ((7 + 7)/7)^7) \\
&:= 8/8 + ((8/8 + 8 + 8) \times (8 \times 8 + 88)) \\
&:= 99/9 + (99 \times ((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2586 &:= 1 + (11 \times (11 + ((1 + 1) \times (1 + 11)))) \\
&:= (2 \times ((2 + 2 + 2)^{2+2} - 2)) - 2 \\
&:= (3^3 \times (3 \times 33 - 3)) - 3 - 3 \\
&:= 4 \times 4 + ((44 - 4)/4 \times (4/4 + 4^4)) \\
&:= 5 + ((55/5 - 555) + 5^5) \\
&:= (6 \times (6 \times (66 + 6))) - 6 \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 7 \times (7 \times 7 + 7)) \\
&:= (8 + 8)/8 + ((8/8 + 8 + 8) \times (8 \times 8 + 88)) \\
&:= ((99 + 9)/9) + (99 \times ((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2587 &:= 11 + ((1 + 111) \times (1 + (11 + 11))) \\
&:= (2 \times ((2 + 2 + 2)^{2+2} - 2)) - 2/2 \\
&:= 3/3 + ((3^3 \times (3 \times 33 - 3)) - (3 + 3)) \\
&:= 4 + (((4^4 - 4)/4) \times ((4/4 - 4) + 44)) \\
&:= ((5/5 + 5)^5/(5 - (5 + 5)/5)) - 5 \\
&:= 6/6 + ((6 \times (6 \times (66 + 6))) - 6) \\
&:= 7 \times 77 + (((7 + 7)/7)^{77/7}) \\
&:= (88 + 8 + 8)/8 \times (888/8 + 88) \\
&:= 9 + ((9999/9 + 9 \times 9 \times (9 + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2588 &:= 1 + (11 + ((1 + 111) \times (1 + (11 + 11)))) \\
&:= 2 \times ((2 + 2 + 2)^{2+2} - 2) \\
&:= (3/3 + 3) \times (3 \times (3 + 3)^3 - 3/3) \\
&:= (4 \times ((4 + 4) \times (4 - 4/4)^4)) - 4 \\
&:= (5 - 5/5) \times (((55 + 55) + 5^5)/5) \\
&:= (6 + 6)/6 + ((6 \times (6 \times (66 + 6))) - 6) \\
&:= 7/7 + (((7 + 7)/7)^{7/7} + 7 \times 7) \\
&:= ((8 \times (8 \times (88 - 8) + 8) - 8)/(8 + 8)/8) \\
&:= ((9 + 9)/9) \times (((9 + 9) \times (9 \times 9 - 9)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2589 &:= (1 + 1 + 1) \times (((1 + 11)^{1+1+1})/(1 + 1)) - 1 \\
&:= 2/2 + (2 \times ((2 + 2 + 2)^{2+2} - 2)) \\
&:= (3^3 \times (3 \times 33 - 3)) - 3 \\
&:= ((4^4 + 4) \times (44 - 4) - 44)/4 \\
&:= 5 \times 5 + (5^5 - ((555 + 5/5) + 5)) \\
&:= (6 \times (6 \times (66 + 6))) - 6 \times 6/(6 + 6) \\
&:= 77 + (777/7 + 7 \times 7 \times 7) \\
&:= 8 + ((8/8 - 88 \times 88)/(8 - 88/8)) \\
&:= 9 + ((99/9 + 9) \times ((999/9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2590 &:= (1 + 1) \times (((1 + 1 + 1) \times (1 + 11))^{1+1} - 1) \\
&:= (2 \times (2 + 2 + 2)^{2+2}) - 2 \\
&:= 3/3 + ((3^3 \times (3 \times 33 - 3)) - 3) \\
&:= (44 - 4)/4 \times ((4^4 - 4/4) + 4) \\
&:= 5 \times 5 + (5^5 - (555 + 5)) \\
&:= (6 \times (6 \times (66 + 6))) - (6 + 6)/6 \\
&:= (7 \times (7 \times (7 \times 7 - 7) + 77)) - 7 \\
&:= (8 - 8/8) \times ((8888 - 8)/(8 + 8 + 8)) \\
&:= ((9 + 9)/9) \times (((9 + 9) \times (9 \times 9 - 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2591 &:= ((1 + 1) \times ((1 + 1 + 1) \times (1 + 11))^{1+1}) - 1 \\
&:= (2 \times (2 + 2 + 2)^{2+2}) - 2/2 \\
&:= (3^3 \times (3 \times 33 - 3)) - 3/3 \\
&:= (4 \times ((4 + 4) \times (4 - 4/4)^4)) - 4/4 \\
&:= 5 + (((55/5 - 555) + 5^5) + 5) \\
&:= (6 \times (6 \times (66 + 6))) - 6/6 \\
&:= 7/7 + ((7 \times (7 \times (7 \times 7 - 7) + 77)) - 7) \\
&:= ((88 + 8) \times (88/8 + 8 + 8)) - 8/8 \\
&:= 99 \times (9 + 9 + 9) - (9/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2592 &:= (1 + 1) \times ((1 + 1 + 1) \times (1 + 11))^{1+1} \\
&:= 2 \times (2 + 2 + 2)^{2+2} \\
&:= 3^3 \times (3 \times 33 - 3) \\
&:= 4 \times ((4 + 4) \times (4 - 4/4)^4) \\
&:= (5/5 + 5)^5 / (5 - (5 + 5)/5) \\
&:= 6 \times (6 \times (66 + 6)) \\
&:= (7/7 + 7) \times ((77/7 + 7)^{(7+7)/7}) \\
&:= (88 + 8) \times (88/8 + 8 + 8) \\
&:= (9 + 9) \times ((9 + 9) \times (9 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2593 &:= 1 + ((1 + 1) \times ((1 + 1 + 1) \times (1 + 11))^{1+1}) \\
&:= 2/2 + (2 \times (2 + 2 + 2)^{2+2}) \\
&:= 3/3 + (3^3 \times (3 \times 33 - 3)) \\
&:= 4/4 + (4 \times ((4 + 4) \times (4 - 4/4)^4)) \\
&:= 5 \times 5 + (5^5 - (555 + (5 + 5)/5)) \\
&:= 6/6 + (6 \times (6 \times (66 + 6))) \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 7 \times (7 \times 7 + 7)) + 7 \\
&:= 8/8 + ((88 + 8) \times (88/8 + 8 + 8)) \\
&:= 9/9 + ((9 + 9) \times ((9 + 9) \times (9 - 9/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2594 &:= (1 + 1) \times (1 + ((1 + 1 + 1) \times (1 + 11))^{1+1}) \\
&:= 2 + (2 \times (2 + 2 + 2)^{2+2}) \\
&:= 3 + ((3^3 \times (3 \times 33 - 3)) - 3/3) \\
&:= 4 + ((44 - 4)/4 \times ((4^4 - 4/4) + 4)) \\
&:= 5 \times 5 + (5^5 - (555 + 5/5)) \\
&:= (6 + 6)/6 + (6 \times (6 \times (66 + 6))) \\
&:= (((7 + 7)/7 + 7 \times 7)^{(7+7)/7}) - 7 \\
&:= (8 + 8)/8 + ((88 + 8) \times (88/8 + 8 + 8)) \\
&:= (9 + 9)/9 + ((9 + 9) \times ((9 + 9) \times (9 - 9/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2595 &:= 1 + ((1 + 1) \times (1 + ((1 + 1 + 1) \times (1 + 11))^{1+1})) \\
&:= 2 + ((2 \times (2 + 2 + 2)^{2+2}) + 2/2) \\
&:= 3 + (3^3 \times (3 \times 33 - 3)) \\
&:= (44 \times (((4^4 - 4)/4) - 4)) - 4/4 \\
&:= 5 \times 5 + (5^5 - 555) \\
&:= (6 \times 6/(6 + 6)) + (6 \times (6 \times (66 + 6))) \\
&:= (7 \times (7 \times (7 \times 7 - 7) + 77)) - (7 + 7)/7 \\
&:= 88/8 + ((8/8 + 8 + 8) \times (8 \times 8 + 88)) \\
&:= ((9 + 9 + 9)/9) + ((9 + 9) \times ((9 + 9) \times (9 - 9/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2596 &:= (1 + 1) \times (11 \times (11^{1+1} - (1 + 1 + 1))) \\
&:= 2 \times ((2 + 2 + 2)^{2+2} + 2) \\
&:= 3 + ((3^3 \times (3 \times 33 - 3)) + 3/3) \\
&:= 44 \times (((4^4 - 4)/4) - 4) \\
&:= 5 \times 5 + ((5^5 - 555) + 5/5) \\
&:= 6 + ((6 \times (6 \times (66 + 6))) - ((6 + 6)/6)) \\
&:= (7 \times (7 \times (7 \times 7 - 7) + 77)) - 7/7 \\
&:= ((8 \times (8 \times (88 - 8) + 8) + 8)/(8 + 8)/8) \\
&:= 99/9 \times ((9 \times (9 + 9 + 9) - 9) + ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2597 &:= 1 + ((1 + 1) \times (11 \times (11^{1+1} - (1 + 1 + 1)))) \\
&:= 2/2 + (2 \times ((2 + 2 + 2)^{2+2} + 2)) \\
&:= 3 + (((3^3 \times (3 \times 33 - 3)) - 3/3) + 3) \\
&:= 4/4 + (44 \times (((4^4 - 4)/4) - 4)) \\
&:= 5 + ((5/5 + 5)^5 / (5 - (5 + 5)/5)) \\
&:= 6 + ((6 \times (6 \times (66 + 6))) - 6/6) \\
&:= 7 \times (7 \times (7 \times 7 - 7) + 77) \\
&:= (8 - 8/8) \times ((8 - 8/8) \times (8 \times 8 - 88/8)) \\
&:= 9 + (((9 + 9)/9) \times (((9 + 9) \times (9 \times 9 - 9)) - ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2598 &:= ((1 + (11 + 11)) \times (1 + 1 + 111)) - 1 \\
&:= 2 + (2 \times ((2 + 2 + 2)^{2+2} + 2)) \\
&:= 3 + ((3^3 \times (3 \times 33 - 3)) + 3) \\
&:= ((4^4 + 4) \times (44 - 4) - (4 + 4))/4 \\
&:= 555 + (((5 + 5)/5)^{55/5} - 5) \\
&:= 6 + (6 \times (6 \times (66 + 6))) \\
&:= 7/7 + (7 \times (7 \times (7 \times 7 - 7) + 77)) \\
&:= 8 + ((8 - 8/8) \times ((8888 - 8)/(8 + 8 + 8))) \\
&:= 9 + (((99/9 + 9) \times ((999/9 + 9) + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2599 &:= (1 + (11 + 11)) \times (1 + 1 + 111) \\
&:= (22 + 2/2) \times (222/2 + 2) \\
&:= 3 + (((3^3 \times (3 \times 33 - 3)) + 3/3) + 3) \\
&:= ((4^4 + 4) \times (44 - 4) - 4)/4 \\
&:= (5 \times ((5^5 - 5)/(5/5 + 5))) - 5/5 \\
&:= 6 + ((6 \times (6 \times (66 + 6))) + 6/6) \\
&:= (7 + 7)/7 + (7 \times (7 \times (7 \times 7 - 7) + 77)) \\
&:= 8 + (((88 + 8) \times (88/8 + 8 + 8)) - 8/8) \\
&:= 9 + (((9 + 9)/9) \times (((9 + 9) \times (9 \times 9 - 9)) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2600 &:= 1 + ((1 + (11 + 11)) \times (1 + 1 + 111)) \\
&:= 2 \times (((2 + 2 + 2)^{2+2} + 2) + 2) \\
&:= (3^3 - 3/3) \times (3 \times 33 + 3/3) \\
&:= (4^4 + 4) \times (44 - 4)/4 \\
&:= 5 \times ((5^5 - 5)/(5/5 + 5)) \\
&:= 6 + ((6 \times (6 \times (66 + 6))) + ((6 + 6)/6)) \\
&:= (7/7 + 7) \times (7 \times 7 \times 7 - (77/7 + 7)) \\
&:= 8 + ((88 + 8) \times (88/8 + 8 + 8)) \\
&:= (9 - 9/9) \times ((9 + 9) \times (9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2601 &:= (1 + ((11 - 1)^{1+1}/(1 + 1)))^{1+1} \\
&:= ((2 \times (22 + 2) + 2/2) + 2)^2 \\
&:= 3 \times ((3 \times 3 \times (3 \times 33 - 3)) + 3) \\
&:= ((4^4 + 4) \times (44 - 4) + 4)/4 \\
&:= ((5/5 - 5) + 55)^{(5+5)/5} \\
&:= 6 + ((6 \times (6 \times (66 + 6))) + (6 \times 6/(6 + 6))) \\
&:= ((7 + 7)/7 + 7 \times 7)^{(7+7)/7} \\
&:= (8/8 + 8) \times ((8/8 + 8 + 8)^{(8+8)/8}) \\
&:= 9 + ((9 + 9) \times ((9 + 9) \times (9 - 9/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2602 &:= 1 + ((1 + ((11 - 1)^{1+1}/(1 + 1)))^{1+1}) \\
&:= 2 + ((2 \times 22 + 2)^2 + 22^2) \\
&:= 3^3 + ((33 \times (3 \times 3^3 - 3)) + 3/3) \\
&:= (((4^4 + 4) \times (44 - 4) + 4) + 4)/4 \\
&:= 5^5 + (((5 + 5)/5)^5 - 555) \\
&:= ((66 - 6)/6) + (6 \times (6 \times (66 + 6))) \\
&:= 7/7 + (((7 + 7)/7 + 7 \times 7)^{(7+7)/7}) \\
&:= ((88 - 8/8) \times ((88 + 88)/8 + 8)) - 8 \\
&:= 9 + (((9 + 9) \times ((9 + 9) \times (9 - 9/9))) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2603 &:= (1+1)^{11} + ((1111-1)/(1+1)) \\
&:= 2 + (((2 \times (22+2) + 2/2) + 2)^2) \\
&:= 33/3 + (3^3 \times (3 \times 33 - 3)) \\
&:= 4 + (((4^4 + 4) \times (44 - 4) - 4)/4) \\
&:= 555 + (((5+5)/5)^{55/5}) \\
&:= 66/6 + (6 \times (6 \times (66+6))) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 - 7) + 77)) - 7/7) \\
&:= (88/8 + 8) \times ((8 \times (8+8) + 8/8) + 8) \\
&:= 99/9 + ((9+9) \times ((9+9) \times (9-9/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2604 &:= (1+11) \times ((1+1) \times (111-1-1) - 1) \\
&:= 2 \times (((2+2+2)^{2+2} + 2) + 2) \\
&:= 3333 - 3^{3+3} \\
&:= 4 + ((4^4 + 4) \times (44 - 4)/4) \\
&:= 5^5 - ((5^5 + 5/5)/(5/5 + 5)) \\
&:= 6 + ((6 \times (6 \times (66+6))) + 6) \\
&:= 7 + (7 \times (7 \times (7 \times 7 - 7) + 77)) \\
&:= ((8 \times 8 \times (88 - 8)) + 88)/(8+8/8) \\
&:= ((99+9)/9) + ((9+9) \times ((9+9) \times (9-9/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2605 &:= 1 + ((1+11) \times ((1+1) \times (111-1-1) - 1)) \\
&:= 2 + (((2 \times (22+2) + 2/2) + 2)^2) + 2) \\
&:= 3/3 + (3333 - 3^{3+3}) \\
&:= 4 + (((4^4 + 4) \times (44 - 4) + 4)/4) \\
&:= 5 + (5 \times ((5^5 - 5)/(5/5 + 5))) \\
&:= 6 + (((6 \times (6 \times (66+6))) + 6/6) + 6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 - 7) + 77)) + 7/7) \\
&:= ((8 - 88/8) + 8) \times ((8 \times 8 \times 8 + 8/8) + 8) \\
&:= ((9 \times 9 + 9)/(9+9)) \times (((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2606 &:= (11 \times (11 + ((1+1) \times (1+1+111)))) - 1 \\
&:= 2 + (2 \times (((2+2+2)^{2+2} + 2) + 2) + 2) \\
&:= 3 + ((3^3 \times (3 \times 33 - 3)) + 33/3) \\
&:= 4 + (((4^4 + 4) \times (44 - 4) + 4) + 4)/4) \\
&:= 5 + (((5/5 - 5) + 55)^{(5+5)/5}) \\
&:= 6 + (((6 \times (6 \times (66+6))) + ((6+6)/6)) + 6) \\
&:= 77 + (7 \times 7 \times 7 \times 7 + ((7+7)/7)^7) \\
&:= 88 + ((8888 - 8)/8 + 88 \times (8+8)) \\
&:= 9/9 + (((9 \times 9 + 9)/(9+9)) \times (((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2607 &:= 11 \times (11 + ((1+1) \times (1+1+111))) \\
&:= 22/2 + (2 \times ((2+2+2)^{2+2} + 2)) \\
&:= 3 + (3333 - 3^{3+3}) \\
&:= 4 + (((4^4 + 4) \times (44 - 4) - 4)/4) + 4) \\
&:= 5 + (((5+5)/5)^5 - 555) + 5^5) \\
&:= 6 + (((6 \times (6 \times (66+6))) + (6 \times 6/(6+6))) + 6) \\
&:= 77 + (((7+7+7)/7)^7 + 7 \times 7 \times 7) \\
&:= 88 + (8888/8 + 88 \times (8+8)) \\
&:= (9 \times 9 - (9+9)/9) \times (99/((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2608 &:= 1 + (11 \times (11 + ((1+1) \times (1+1+111)))) \\
&:= 2 \times ((2+2+2)^{2+2} + 2 \times (2+2)) \\
&:= (3-3/3) \times ((33/3)^3 - 3^3) \\
&:= 4 \times (((4+4) \times (4-4/4)^4) + 4) \\
&:= 5 + (((5+5)/5)^{55/5} + 555) \\
&:= 6 + ((6 \times (6 \times (66+6))) + ((66-6)/6)) \\
&:= 7 + (((7+7)/7 + 7 \times 7)^{(7+7)/7}) \\
&:= (8+8) \times ((88/8 + 88) + 8 \times 8) \\
&:= (9-9/9) \times ((9+9) \times (9+9) + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2609 &:= (1+1)^{11} + ((11+1111)/(1+1)) \\
&:= 2 + ((2 \times ((2+2+2)^{2+2} + 2)) + 22/2) \\
&:= (3 \times (33 \times 3^3)) - ((3/3 + 3)^3) \\
&:= 4 + (((4^4 + 4) \times (44 - 4) + 4)/4) + 4) \\
&:= 5 + (5^5 - ((5^5 + 5/5)/(5/5 + 5))) \\
&:= 6 + ((6 \times (6 \times (66+6))) + (66/6)) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - (((7+7)/7)^7 + 7) \\
&:= 8 + ((8/8 + 8) \times ((8/8 + 8 + 8)^{(8+8)/8})) \\
&:= 9 + ((9-9/9) \times ((9+9) \times (9+9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2610 &:= 11 + ((1 + (11+11)) \times (1+1+111)) \\
&:= 22 + (2 \times ((2+2+2)^{2+2} - 2)) \\
&:= (3^3 + 3) \times (3 \times 3^3 + 3 + 3) \\
&:= (44 - 4)/4 \times ((4/4 + 4^4) + 4) \\
&:= 5 + ((5 \times ((5^5 - 5)/(5/5 + 5))) + 5) \\
&:= 6 + (((6 \times (6 \times (66+6))) + 6) + 6) \\
&:= 777/7 + (7 \times (7 \times 7 + 7 + 7)) \\
&:= (88 - 8/8) \times ((88 + 88)/8 + 8) \\
&:= (9/9 + 9) \times (9 \times (9+9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2611 &:= 111 + (((11-1)^{1+1}/(1+1))^{1+1}) \\
&:= 222/2 + (2 \times (22+2) + 2)^2 \\
&:= 3 + ((3-3/3) \times ((33/3)^3 - 3^3)) \\
&:= 444/4 + (4 \times (4/4 + 4^4)) \\
&:= 5^5 + ((555 - 5^5)/5) \\
&:= 6 + (((6 \times (6 \times (66+6))) + 6/6) + 6) + 6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 - 7) + 77)) + 7) \\
&:= 8 + ((88/8 + 8) \times ((8 \times (8+8) + 8/8) + 8)) \\
&:= 9/9 + ((9/9 + 9) \times (9 \times (9+9) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2612 &:= 11 + ((1 + ((11-1)^{1+1}/(1+1)))^{1+1}) \\
&:= 22 + ((2 \times (2+2+2)^{2+2} - 2) \\
&:= 3 + ((3 \times (33 \times 3^3)) - ((3/3 + 3)^3)) \\
&:= 4 + (4 \times (((4+4) \times (4-4/4)^4) + 4)) \\
&:= 5^5 + (((555 - 5^5) + 5)/5) \\
&:= 6 + (((6 \times (6 \times (66+6))) + ((6+6)/6)) + 6) + 6) \\
&:= 7 + (((7 \times (7 \times (7 \times 7 - 7) + 77)) + 7/7) + 7) \\
&:= 8 + (((8 \times 8 \times (88 - 8)) + 88)/(8+8)/8) \\
&:= 9 + (((9+9) \times ((9+9) \times (9-9/9))) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2613 &:= (1+1+11) \times (1 + ((1+1) \times (11-1)^{1+1})) \\
&:= 22 + ((2 \times (2+2+2)^{2+2} - 2/2) \\
&:= 3 + ((3^3 + 3) \times (3 \times 3^3 + 3 + 3)) \\
&:= 4^4 + (((4-4/4) + 4)^4) - 44) \\
&:= 5^5 - (((5+5)/5)^{5-5/5+5}) \\
&:= (66 + 6/6) \times ((66 \times 6/(6+6)) + 6) \\
&:= (7 \times (7 \times 77 - 7)) - 7777/7 \\
&:= 8 \times 8 \times 8 + ((88 \times (8+8+8)) - (88/8)) \\
&:= ((9+9+9)/9) \times (9 \times 99 - (99/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2614 &:= (1+1) \times (((1+11) \times (111-1-1) - 1) \\
&:= 22 + (2 \times (2+2+2)^{2+2}) \\
&:= (3-3/3) \times (((33/3)^3 - 3^3) + 3) \\
&:= 4 + ((44-4)/4 \times ((4/4 + 4^4) + 4)) \\
&:= 55 + (5^5 - (555 + (55/5))) \\
&:= ((6+6)/6) \times (6 \times 6 \times 6 + (66/6)) \\
&:= 7 + (((7+7+7)/7)^7 + 7 \times 7 \times 7) + 77) \\
&:= 8 \times 8 + (((8+8)/8) + 8) \times ((8+8) \times (8+8) - 8/8) \\
&:= 9 + (((9 \times 9 + 9)/(9+9)) \times (((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2615 &:= ((1+1) \times ((1+11) \times (111-1-1))) - 1 \\
&:= 22 + ((2 \times (2+2+2)^{2+2} + 2/2) \\
&:= 33/3 + (3333 - 3^{3+3}) \\
&:= 4 + ((4 \times (4/4 + 4^4)) + 444/4) \\
&:= 5 \times (555 - ((5+5)/5)^5) \\
&:= 6 + (((6 \times (6 \times (66+6))) + (66/6)) + 6) \\
&:= 7 + (((7+7)/7 + 7 \times 7)^{(7+7)/7} + 7) \\
&:= 888 + (8 \times (8 \times (8+8) + 88) - 8/8) \\
&:= (9 \times (9 \times 9 - (9+9))) + (((9+9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2616 &:= (1+1) \times ((1+11) \times (111-1-1)) \\
&:= (22+2) \times (222/2 - 2) \\
&:= 3^3 + ((3^3 \times (3 \times 33 - 3)) - 3) \\
&:= 4 \times 4 + ((4^4 + 4) \times (44 - 4)/4) \\
&:= 5 + (((555 - 5^5)/5) + 5^5) \\
&:= (6+6) \times (6 \times 6 \times 6 + (6+6)/6) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - ((7+7)/7)^7 \\
&:= 888 + 8 \times (8 \times (8+8) + 88) \\
&:= 9 \times 9 \times 9 + (((9-9/9) + 9) \times 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2617 &:= 1 + ((1+1) \times ((1+11) \times (111-1-1))) \\
&:= (22 \times ((22/2)^2 - 2)) - 2/2 \\
&:= (3+3)^3 + (((3/3 + 3) + 3)^{3/3+3}) \\
&:= 4 + (((4-4/4) + 4)^4) - 44 + 4^4) \\
&:= 5 + (((555 - 5^5) + 5)/5) + 5^5) \\
&:= (6 \times ((6 \times (66+6)) + 6)) - 66/6 \\
&:= (7 \times (7 \times (7 \times 7 + 7) - 7)) - 7/7 - 77 \\
&:= 8/8 + (8 \times (8 \times (8+8) + 88) + 888) \\
&:= 9 + ((9-9/9) \times ((9+9) \times (9+9) + ((9+9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2618 &:= (1+1) \times 11 \times (11^{1+1} - 1 - 1) \\
&:= 22 \times ((22/2)^2 - 2) \\
&:= 3^3 + ((3^3 \times (3 \times 33 - 3)) - 3/3) \\
&:= 44/4 \times (4^4 - ((4+4)/4 + 4 \times 4)) \\
&:= 55/5 \times (((5 - (5+5)/5)^5) - 5) \\
&:= (6 - 66)/6 + (6 \times ((6 \times (66+6)) + 6)) \\
&:= 77 \times (7 \times 7 - (7/7 + 7 + 7)) \\
&:= (888/8 + 8) \times (88 + 88)/8 \\
&:= 999 + ((9 \times (99 + 9 \times 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2619 &:= 1 + ((1+1) \times 11 \times (11^{1+1} - 1 - 1)) \\
&:= 2/2 + (22 \times ((22/2)^2 - 2)) \\
&:= 3 \times (3 \times (3 \times (3 \times 33 - 3) + 3)) \\
&:= (4 \times (4 \times (4 \times (44 - 4) + 4))) - (4/4 + 4) \\
&:= 55 + (5^5 - ((555 + 5/5) + 5)) \\
&:= 6 + ((66 + 6/6) \times ((66 \times 6/(6+6)) + 6)) \\
&:= 7/7 + (77 \times (7 \times 7 - (7/7 + 7 + 7))) \\
&:= (88/8 + 8 + 8) \times ((8/8 + 88) + 8) \\
&:= 999 + (9 \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2620 &:= (1+1) \times (1+11 \times (11^{1+1} - 1 - 1)) \\
&:= 2 + (22 \times ((22/2)^2 - 2)) \\
&:= 3^3 + ((3^3 \times (3 \times 33 - 3)) + 3/3) \\
&:= (4 \times (4 \times (4 \times (44 - 4) + 4))) - 4 \\
&:= 55 + (5^5 - (555 + 5)) \\
&:= ((6+6)/6)^6 + (6 \times ((6 \times (66+6)) - 6)) \\
&:= 7 + ((7 \times (7 \times 77 - 7)) - 7777/7) \\
&:= 8 \times 8 + (((8 \times 8 \times (88 - 8)) - 8)/(8+8)/8) \\
&:= 9/9 + ((9 \times (99 + 9 \times 9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2621 &:= 1 + (1+1) \times (1+11 \times (11^{1+1} - 1 - 1)) \\
&:= 2 + ((22 \times ((22/2)^2 - 2)) + 2/2) \\
&:= ((33 - 3/3) \times (3 \times 3^3 + 3/3)) - 3 \\
&:= 44 + (((4 - 4/4) + 4)^4) + 4 \times 44 \\
&:= 5 + (((555 - 5^5)/5) + 5^5) + 5 \\
&:= (6 \times ((6 \times (66+6)) + 6)) - 6/6 - 6 \\
&:= 777 + (((7+7+7)/7)^7 - 7 \times 7 \times 7) \\
&:= 8 \times 8 \times 8 + ((88/8 + 8) \times 888/8) \\
&:= (9+9)/9 + ((9 \times (99 + 9 \times 9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2622 &:= (1 + (11 + 11)) \times (1 + 1 + 1 + 111) \\
&:= (22 - 2)^2 + 2222 \\
&:= 3 + ((3^3 \times (3 \times 33 - 3)) + 3^3) \\
&:= (4 \times (4 \times (4 \times (44 - 4) + 4))) - (4 + 4)/4 \\
&:= 5^5 + (((555 - 5^5) + 55)/5) \\
&:= (6 \times ((6 \times (66+6)) + 6)) - 6 \\
&:= (7 \times 7 - 77/7) \times (77 - (7/7 + 7)) \\
&:= 8 \times 8 \times 8 + ((88 \times (8 + 8 + 8)) - ((8+8)/8)) \\
&:= 9 \times 9 \times 9 + ((9+9) \times 99 + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2623 &:= 1 + ((1 + (11 + 11)) \times (1 + 1 + 1 + 111)) \\
&:= 22 + (((2 \times (22 + 2) + 2/2) + 2)^2) \\
&:= ((3 - 3/3) \times ((33/3)^3 - 3)) - 33 \\
&:= (44 - 4/4) \times ((4^4 + 4)/4 - 4) \\
&:= 5 + (55/5 \times (((5 - (5+5)/5)^5) - 5)) \\
&:= 6/6 + ((6 \times ((6 \times (66+6)) + 6)) - 6) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) - ((7+7)/7)^7) \\
&:= 8 \times 8 \times 8 + ((88 \times (8 + 8 + 8)) - 8/8) \\
&:= 99 \times (9 + 9 + 9) - ((9 \times 99 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2624 &:= (1+1)^{11} + (((1+1) \times (1+11))^{1+1}) \\
&:= 2^{22/2} + ((22+2)^2) \\
&:= (33 - 3/3) \times (3 \times 3^3 + 3/3) \\
&:= 4 \times (4 \times (4 \times (44 - 4) + 4)) \\
&:= 55 + (5^5 - (555 + 5/5)) \\
&:= ((6+6)/6)^6 \times (6 \times 6 - 6/6 + 6) \\
&:= (7/7 + 7) \times (7 \times 7 \times 7 - (7/7 + 7 + 7)) \\
&:= 8 \times ((8+8) \times (8+8) + 8 \times 8) + 8 \\
&:= (9/9 + 9 \times 9) \times (((99 + 99 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2625 &:= 1 + ((1+1)^{11} + (((1+1) \times (1+11))^{1+1})) \\
&:= 2/2 + (2^{22/2} + ((22+2)^2)) \\
&:= 33 + (3^3 \times (3 \times 33 - 3)) \\
&:= 4/4 + (4 \times (4 \times (4 \times (44 - 4) + 4))) \\
&:= 5 \times (5 \times (5 \times (5 \times 5 - 5) + 5)) \\
&:= (6 \times 6 - 6/6) \times (666/6 - 6 \times 6) \\
&:= 7 + (77 \times (7 \times 7 - (7/7 + 7 + 7))) \\
&:= 8/8 + ((88 \times (8 + 8 + 8)) + 8 \times 8 \times 8) \\
&:= 9 + (((9 - 9/9) + 9) \times 999/9) + 9 \times 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2626 &:= (1+1) \times (1+1+11) \times (1+(11-1)^{1+1}) \\
&:= 2 + (2^{22/2} + ((22+2)^2)) \\
&:= 3/3 + ((3^3 \times (3 \times 33 - 3)) + 33) \\
&:= (4+4)/4 + (4 \times (4 \times (4 \times (44 - 4) + 4))) \\
&:= 55 + ((5^5 - 555) + 5/5) \\
&:= (6 \times ((6 \times (66+6)) + 6)) - (6+6)/6 \\
&:= 7 \times 7 \times (7 \times 7 + 7) - (777/7 + 7) \\
&:= 8 + ((888/8 + 8) \times (88 + 88)/8) \\
&:= (((9 - 9/9) + 9) + 9) \times ((9+9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2627 &:= ((1+11) \times (((1+1) \times (111-1)) - 1)) - 1 \\
&:= (22/2 \times ((22^2 - 2)/2 - 2)) - 2 \\
&:= (33/3)^3 + ((3+3)^{3/3+3}) \\
&:= 4 + ((44 - 4/4) \times ((4^4 + 4)/4 - 4)) \\
&:= 55 + (((5+5)/5 - 555) + 5^5) \\
&:= (6 \times ((6 \times (66+6)) + 6)) - 6/6 \\
&:= ((7+7)/7)^7 + (7 \times (7 \times 7 \times 7 + 7)) \\
&:= 8 + ((88/8 + 8 + 8) \times ((8/8 + 88) + 8)) \\
&:= 9 + (((9 \times (99 + 9 \times 9)) - 9/9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2628 &:= (1+11) \times (((1+1) \times (111-1)) - 1) \\
&:= (2+2+2) \times ((2 \times (222-2)) - 2) \\
&:= (3 \times 3 + 3) \times ((3+3)^3 + 3) \\
&:= 4 + (4 \times (4 \times (4 \times (44 - 4) + 4))) \\
&:= (5 - 5/5) \times (((5+5)/5)^5 + 5^5/5) \\
&:= 6 \times ((6 \times (66+6)) + 6) \\
&:= (77/7 + 7) \times (7 \times (7 + 7 + 7) - 7/7) \\
&:= 8 \times 8 + (((8 \times 8 \times (88 - 8)) + 8)/(8+8)/8) \\
&:= 9 + ((9 \times (99 + 9 \times 9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2629 &:= 11 \times (((1+1) \times (11^{1+1} - 1)) - 1) \\
&:= 22/2 \times ((22^2 - 2)/2 - 2) \\
&:= 3/3 + ((3 \times 3 + 3) \times ((3+3)^3 + 3)) \\
&:= 44/4 \times (4^4 - (4 \times 4 + 4/4)) \\
&:= 5 + ((55 - (555 + 5/5)) + 5^5) \\
&:= 6/6 + (6 \times ((6 \times (66+6)) + 6)) \\
&:= 7 + ((7 \times 7 - 77/7) \times (77 - (7/7 + 7))) \\
&:= 88/8 \times (888/8 + 8 \times (8+8)) \\
&:= 9 + (((9 \times (99 + 9 \times 9)) + 999) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2630 &:= 1 + (11 \times (((1+1) \times (11^{1+1} - 1)) - 1)) \\
&:= 2 + ((2+2+2) \times ((2 \times (222-2)) - 2)) \\
&:= 3 + (((3+3)^{3/3+3}) + (33/3)^3) \\
&:= (4 - 44)/4 + (44 \times (4 \times 4 + 44)) \\
&:= 5 + ((5^5 - 555) + 55) \\
&:= (6+6)/6 + (6 \times ((6 \times (66+6)) + 6)) \\
&:= 7 + ((7 \times 7 \times (7 \times 7 + 7) - ((7+7)/7)^7) + 7) \\
&:= (((8+8)/8) + 8) \times (((8+8) \times (8+8) - 8/8) + 8) \\
&:= 99/9 + ((9 \times (99 + 9 \times 9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2631 &:= 1 + (1 + (11 \times (((1+1) \times (11^{1+1} - 1)) - 1))) \\
&:= 2 + (22/2 \times ((22^2 - 2)/2 - 2)) \\
&:= 3 + ((3 \times 3 + 3) \times ((3+3)^3 + 3)) \\
&:= 444 + ((4 - 4/4)^{4+4-4/4}) \\
&:= 5 + (((5/5 - 555) + 55) + 5^5) \\
&:= 666/6 + ((6+6) \times (6 \times 6 \times 6 - 6)) \\
&:= ((7+7) \times (777/7 + 77)) - 7/7 \\
&:= (88/8 - 8) \times (888 - 88/8) \\
&:= (((9+9+9)/9) \times (9 \times 99 - (99/9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2632 &:= (1+1+1+11)^{1+1+1} - (1+111) \\
&:= 2 \times (((2+2+2)^{2+2} - 2) + 22) \\
&:= 3 + (((3 \times 3 + 3) \times ((3+3)^3 + 3)) + 3/3) \\
&:= (44 \times (4 \times 4 + 44)) - 4 - 4 \\
&:= 5 + (((5+5)/5 - 555) + 55) + 5^5 \\
&:= 6 + ((6 \times ((6 \times (66+6)) + 6)) - ((6+6)/6)) \\
&:= (7+7) \times (777/7 + 77) \\
&:= 8 + ((88 \times (8 + 8 + 8)) + 8 \times 8 \times 8) \\
&:= 99 \times (9 + 9 + 9) - ((9 \times 9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2633 &:= (1+1+1+11)^{1+1+1} - 111 \\
&:= 2 + ((22/2 \times ((22^2 - 2)/2 - 2)) + 2) \\
&:= ((33/3 + 3)^3) - 333/3 \\
&:= 4 + (44/4 \times (4^4 - (4 \times 4 + 4/4))) \\
&:= 5 + ((5 - 5/5) \times (((5 + 5)/5)^5 + 5^5/5)) \\
&:= 6 + ((6 \times ((6 \times (66 + 6)) + 6)) - 6/6) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - 777/7 \\
&:= 8 + (((88 \times (8 + 8 + 8)) + 8 \times 8 \times 8) + 8/8) \\
&:= 99 \times (9 + 9 + 9) + ((9 - 9 \times 9 \times 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2634 &:= 1 + ((1+1+1+11)^{1+1+1} - 111) \\
&:= (2+2+2) \times (((22 - 2/2)^2) - 2) \\
&:= 3 + (((3 \times 3 + 3) \times ((3+3)^3 + 3)) + 3) \\
&:= ((4+4)/4 + 4) \times (444 - (4/4 + 4)) \\
&:= 5^5 + (((5^5 - 5555)/5) - 5) \\
&:= 6 + (6 \times ((6 \times (66 + 6)) + 6)) \\
&:= ((7 - 777)/7) + 7 \times 7 \times (7 \times 7 + 7) \\
&:= (88/8 - 8) \times ((8 - 88)/8 + 888) \\
&:= (9 + 9) \times (9 \times (9 + 9) - 9) - (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2635 &:= ((1+1) \times (11^{1+1+1} - (1+1+11))) - 1 \\
&:= (2/2 + 2 + 2) \times ((22 + 2/2)^2 - 2) \\
&:= ((3 - 3/3) \times (33/3)^3) - 3^3 \\
&:= (44 \times (4 \times 4 + 44)) - (4/4 + 4) \\
&:= 5 + (((5^5 - 555) + 55) + 5) \\
&:= 6 + ((6 \times ((6 \times (66 + 6)) + 6)) + 6/6) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - (7 + 7))) - 77/7 \\
&:= 8 \times 8 \times 8 + ((88 \times (8 + 8 + 8)) + (88/8)) \\
&:= (9 + 9 + 9) \times (99 - 9/9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2636 &:= (1+1) \times (11^{1+1+1} - (1+1+11)) \\
&:= 2 \times ((2+2+2)^{2+2} + 22) \\
&:= ((33/3 + 3)^3) - (3 \times (33 + 3)) \\
&:= (44 \times (4 \times 4 + 44)) - 4 \\
&:= 5 \times 5 + (((555 - 5^5)/5) + 5^5) \\
&:= 6 + ((6 \times ((6 \times (66 + 6)) + 6)) + ((6 + 6)/6)) \\
&:= 7 \times (77 + 7) + (((7 + 7)/7)^{77/7}) \\
&:= ((8 \times (8 \times (88 - 8) + 8)) + 88)/((8 + 8)/8) \\
&:= (9 + 9 + 9) \times (99 - 9/9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2637 &:= ((1+1) \times (11^{1+1+1} - (1+11))) - 1 \\
&:= 2/2 + (2 \times ((2+2+2)^{2+2} + 22)) \\
&:= 3 \times ((33 \times 3^3) - (3 \times 3 + 3)) \\
&:= 4/4 + (44 \times (4 \times 4 + 44) - 4) \\
&:= 5 \times 5 + (((555 - 5^5) + 5)/5) + 5^5 \\
&:= 6 + ((6 \times ((6 \times (66 + 6)) + 6)) + (6 \times 6/(6 + 6))) \\
&:= ((7 + 7)/7 + 7) \times (7 \times (7 \times 7 - 7) - 7/7) \\
&:= (88/8 - 8) \times (888 - 8/8 - 8) \\
&:= (9 + 9 + 9) \times (99 - 9/9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2638 &:= (1+1) \times (11^{1+1+1} - (1+11)) \\
&:= 2 + (2 \times ((2+2+2)^{2+2} + 22)) \\
&:= 3 + (((3 - 3/3) \times (33/3)^3) - 3^3) \\
&:= (44 \times (4 \times 4 + 44)) - (4 + 4)/4 \\
&:= 5^5 + ((5^5 - (5555 + 5))/5) \\
&:= ((66 - 6)/6) + (6 \times ((6 \times (66 + 6)) + 6)) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - (7 + 7))) - (7/7 + 7) \\
&:= ((8 + 8)/8) \times (88 \times (8 + 8) - (8/8 + 88)) \\
&:= 9/9 + ((9 + 9 + 9) \times (99 - 9/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2639 &:= ((1+1) \times 11 \times (11^{1+1} - 1)) - 1 \\
&:= ((22 \times (22^2/2 - 2)) - 2)/2 \\
&:= (3 \times (33 \times 3^3)) - 3/3 - 33 \\
&:= (44 \times (4 \times 4 + 44)) - 4/4 \\
&:= 5^5 + ((5^5 - 5555)/5) \\
&:= 66/6 + (6 \times ((6 \times (66 + 6)) + 6)) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - (7 + 7))) - 7 \\
&:= (88 \times ((88 + 88)/8 + 8)) - 8/8 \\
&:= (99/9 + 9 + 9) \times ((9/9 + 9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2640 &:= (1+1) \times 11 \times (11^{1+1} - 1) \\
&:= 2 \times ((2+2+2) \times (222 - 2)) \\
&:= 33 \times (3 \times 3^3 - 3/3) \\
&:= 44 \times (4 \times 4 + 44) \\
&:= (5 + 5) \times (5 \times 55 - (55/5)) \\
&:= 6 + ((6 \times ((6 \times (66 + 6)) + 6)) + 6) \\
&:= (7 \times 7 - 7/7) \times ((7 \times 7 - 7/7) + 7) \\
&:= 88 \times ((88 + 88)/8 + 8) \\
&:= ((9 + 9 + 9)/9) \times (9 \times 99 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2641 &:= 1 + ((1+1) \times 11 \times (11^{1+1} - 1)) \\
&:= ((22 \times (22^2/2 - 2)) + 2)/2 \\
&:= 3/3 + (33 \times (3 \times 3^3 - 3/3)) \\
&:= 4/4 + (44 \times (4 \times 4 + 44)) \\
&:= 5^5 + (55/5 \times (55/5 - 55)) \\
&:= 6 + (((6 \times ((6 \times (66 + 6)) + 6)) + 6/6) + 6) \\
&:= 7 + (((7 - 777)/7) + 7 \times 7 \times (7 \times 7 + 7)) \\
&:= 8/8 + (88 \times ((88 + 88)/8 + 8)) \\
&:= 9 \times 9 + ((9/9 + 9) \times (((9 + 9)/9)^{9-9/9}))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2642 &:= (1+1) \times (1+11 \times (11^{1+1} - 1)) \\
&:= 2 + (2 \times ((2+2+2) \times (222 - 2))) \\
&:= ((33/3 + 3)^3) - (3 \times 33 + 3) \\
&:= (4+4)/4 + (44 \times (4 \times 4 + 44)) \\
&:= 55 + (((5/5 + 5)^5 / (5 - (5 + 5)/5)) - 5) \\
&:= 6 + (((6 \times ((6 \times (66 + 6)) + 6)) + ((6 + 6)/6)) + 6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) - (7 + 7))) - (77/7)) \\
&:= (8 + 8)/8 + (88 \times ((88 + 88)/8 + 8)) \\
&:= 99 \times (9 + 9 + 9) - (((99 + 99)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2643 &:= 1 + (1+1) \times (1+11 \times (11^{1+1} - 1)) \\
&:= 2 + (((22 \times (22^2/2 - 2)) + 2)/2) \\
&:= 3 + (33 \times (3 \times 3^3 - 3/3)) \\
&:= 4 + (44 \times (4 \times 4 + 44) - 4/4) \\
&:= (5 \times (555 - 5 \times 5)) - ((5 + 5)/5 + 5) \\
&:= ((6 \times (666 + 6 \times 6 \times 6)) - 6)/((6 + 6)/6) \\
&:= 7 + (((7 + 7)/7)^{77/7}) + 7 \times (77 + 7) \\
&:= (88/8 - 8) \times ((888 - 8) + 8/8) \\
&:= ((9 + 9 + 9)/9) \times (9 \times 99 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2644 &:= (1+1) \times (1+1+11 \times (11^{1+1} - 1)) \\
&:= 2 \times (((2+2+2) \times (222 - 2)) + 2) \\
&:= (3 - 3/3) \times ((33/3)^3 - 3 \times 3) \\
&:= 4 + (44 \times (4 \times 4 + 44)) \\
&:= (5 \times (555 - 5 \times 5)) - (5/5 + 5) \\
&:= (6 - ((6 + 6)/6)) \times ((666 - 6) + 6/6) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - (7 + 7))) - (7 + 7)/7 \\
&:= 88 + (((8 \times 8 \times (88 - 8)) - 8)/(8 + 8)/8) \\
&:= 99 \times (9 + 9 + 9) - (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2645 &:= 1 + (1+1) \times (1+1+11 \times (11^{1+1} - 1)) \\
&:= (2/2 + 2 + 2) \times ((22 + 2/2)^2) \\
&:= ((33/3 + 3)^3) - 3 \times 33 \\
&:= 4 + (44 \times (4 \times 4 + 44) + 4/4) \\
&:= (5 \times (555 - 5 \times 5)) - 5 \\
&:= 6 + ((6 \times ((6 \times (66 + 6)) + 6)) + (66/6)) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - (7 + 7))) - 7/7 \\
&:= 8 + ((88/8 - 8) \times (888 - 8/8 - 8)) \\
&:= (9 + 9 + 9) \times (99 - 9/9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2646 &:= (1+1) \times (1+1+1+11 \times (11^{1+1} - 1)) \\
&:= (2+2+2) \times ((22 - 2/2)^2) \\
&:= 3 \times (3 \times (3 \times 3 \times 33 - 3)) \\
&:= ((4^4 - 4)/4) \times (44 - (4 + 4)/4) \\
&:= 5/5 + ((5 \times (555 - 5 \times 5)) - 5) \\
&:= 666 + 66 \times (6 \times 6 - 6) \\
&:= 7 \times (7 \times (7 \times 7 + 7) - (7 + 7)) \\
&:= ((8 + 8)/8) \times (((88/8)^{88/8-8}) - 8) \\
&:= (9 + 9 + 9) \times (99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2647 &:= (1+1) \times (11^{1+1+1} - 1 - 1) - 11 \\
&:= 2 + ((2/2 + 2 + 2) \times ((22 + 2/2)^2)) \\
&:= 3/3 + (3 \times (3 \times (3 \times 3 \times 33 - 3))) \\
&:= 4 + ((44 \times (4 \times 4 + 44) - 4/4) + 4) \\
&:= 55 + ((5/5 + 5)^5 / (5 - (5 + 5)/5)) \\
&:= 66 + ((6 \times (6 \times (66 + 6))) - (66/6)) \\
&:= 7/7 + (7 \times (7 \times (7 \times 7 + 7) - (7 + 7))) \\
&:= 8888/8 + 8 \times 8 \times (8 + 8 + 8) \\
&:= 9/9 + (9 + 9 + 9) \times (99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2648 &:= (1+1) \times (11^{1+1+1} - 1) - 1 - 11 \\
&:= 2 + ((2+2+2) \times ((22-2/2)^2)) \\
&:= 3 + (((33/3+3)^3) - 3 \times 33) \\
&:= 4 + (44 \times (4 \times 4 + 44) + 4) \\
&:= (5 \times (555 - 5 \times 5)) - (5+5)/5 \\
&:= 66 + ((6 \times (6 \times (66+6))) + ((6-66)/6)) \\
&:= (7+7)/7 + (7 \times (7 \times (7 \times 7 + 7) - (7+7))) \\
&:= 8 + (88 \times ((88+88)/8+8)) \\
&:= (9+9)/9 + (9+9+9) \times (99-9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2649 &:= (1+1) \times (11^{1+1+1} - 1) - 11 \\
&:= (22/2 \times (22^2 - 2)/2) - 2 \\
&:= 3 + (3 \times (3 \times (3 \times 33 - 3))) \\
&:= 4^4 + (((4-4/4) + 4)^4) - (4+4) \\
&:= (5 \times (555 - 5 \times 5)) - 5/5 \\
&:= (66 \times (6 \times 6 + 6)) - ((666/6+6) + 6) \\
&:= 7 \times 77 + (((7+7+7)/7)^7 - 77) \\
&:= 8 + ((88 \times ((88+88)/8+8)) + 8/8) \\
&:= ((9+9+9)/9) \times ((9 \times 99 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2650 &:= (1+1) \times 11^{1+1+1} - 1 - 11 \\
&:= ((22 \times (22^2 - 2)/2) - 2)/2 \\
&:= (3 - 3/3) \times ((33/3)^3 - (3+3)) \\
&:= 4 + (((4^4 - 4)/4) \times (44 - (4+4)/4)) \\
&:= 5 \times (555 - 5 \times 5) \\
&:= ((6+6)/6)^6 + ((6 \times (6 \times (66+6))) - 6) \\
&:= 7 \times 7 + (((7+7)/7 + 7 \times 7)^{(7+7)/7}) \\
&:= (((8+8)/8) + 8) \times (((8+8) \times (8+8) + 8/8) + 8) \\
&:= (9/9+9) \times (((9+9)/9)^{9-9/9} + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2651 &:= 11 \times (((1+1) \times 11^{1+1}) - 1) \\
&:= 22/2 \times (22^2 - 2)/2 \\
&:= 33/3 \times (((3^3+3) + 3)/3) - 3 \\
&:= 44/4 + (44 \times (4 \times 4 + 44)) \\
&:= 5/5 + (5 \times (555 - 5 \times 5)) \\
&:= 66 + ((6 \times (6 \times (66+6))) - (6/6+6)) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) - (7+7))) - ((7+7)/7)) \\
&:= 8 + ((88/8 - 8) \times ((888 - 8) + 8/8)) \\
&:= 99/9 \times (9 \times (9+9+9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2652 &:= (1+11) \times ((1+1) \times 111 - 1) \\
&:= (2+2+2) \times (2 \times 222 - 2) \\
&:= (3^3 - 3/3) \times (3 \times 33 + 3) \\
&:= 4 + ((44 \times (4 \times 4 + 44) + 4) + 4) \\
&:= (5+5)/5 + (5 \times (555 - 5 \times 5)) \\
&:= 66 + ((6 \times (6 \times (66+6))) - 6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) - (7+7))) - 7/7) \\
&:= 88 + (((8 \times 8 \times (88 - 8)) + 8)/(8+8)/8) \\
&:= (((9-9/9) + 9) + 9) \times (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2653 &:= 1 + ((1+11) \times ((1+1) \times 111 - 1)) \\
&:= 2 + (22/2 \times (22^2 - 2)/2) \\
&:= (3 \times ((33 \times 3^3) - 3)) - 33/3 \\
&:= 4^4 + (((4-4/4) + 4)^4) - 4 \\
&:= 5 + ((5 \times (555 - 5 \times 5)) - ((5+5)/5)) \\
&:= ((6+6) \times (6 \times 6 \times 6 + 6)) - 66/6 \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) - (7+7))) \\
&:= ((8+8+8) \times 888/8) - 88/8 \\
&:= 99 \times (9+9+9) - (99/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2654 &:= 1 + (1 + ((1+11) \times ((1+1) \times 111 - 1))) \\
&:= 2 + ((2+2+2) \times (2 \times 222 - 2)) \\
&:= (3 \times (3 - 33)) + ((33/3+3)^3) \\
&:= 4/4 + (((4-4/4) + 4)^4) - 4 + 4^4 \\
&:= 5 + ((5 \times (555 - 5 \times 5)) - 5/5) \\
&:= (6 - 66)/6 + ((6+6) \times (6 \times 6 \times 6 + 6)) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) - (7+7))) + 7/7) \\
&:= (8 - 88)/8 + ((8+8+8) \times 888/8) \\
&:= 99 \times (9+9+9) - (9/9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2655 &:= (1+1) \times (1+1+11^{1+1+1}) - 11 \\
&:= 2 + ((22/2 \times (22^2 - 2)/2) + 2) \\
&:= 3 \times ((33 \times 3^3) - (3+3)) \\
&:= (44/4+4) \times (4 \times 44 + 4/4) \\
&:= 5 + (5 \times (555 - 5 \times 5)) \\
&:= (66 \times (6 \times 6 + 6)) - (666/6+6) \\
&:= (7 - ((7+7)/7)) \times (7 \times 77 - (7/7+7)) \\
&:= (8 - 8/8+8) \times ((88+88) + 8/8) \\
&:= 99 \times (9+9+9) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2656 &:= (1+1) \times (11^{1+1+1} - 1 - 1 - 1) \\
&:= 2 \times (2 \times (((2/2+2) \times 222) - 2)) \\
&:= (3 - 3/3) \times ((33/3)^3 - 3) \\
&:= 4 \times ((44 \times (44/4+4) + 4) + 4) \\
&:= 5 + ((5 \times (555 - 5 \times 5)) + 5/5) \\
&:= ((6+6)/6)^6 + (6 \times (6 \times (66+6))) \\
&:= (7/7+7) \times (7 \times 7 \times 7 - (77/7)) \\
&:= ((8+8+8) \times 888/8) - 8 \\
&:= 9/9 + (99 \times (9+9+9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2657 &:= (1+1) \times (11^{1+1+1} - 1 - 1) - 1 \\
&:= (22 \times (22/2)^2) - (2/2+2+2) \\
&:= (((3+3) \times ((33/3)^3 - 3)) + 3)/3 \\
&:= 4^4 + (((4-4/4) + 4)^4) \\
&:= 5 + ((5 \times (555 - 5 \times 5)) + ((5+5)/5)) \\
&:= 66 + ((6 \times (6 \times (66+6))) - 6/6) \\
&:= 77/7 + (7 \times (7 \times (7 \times 7 + 7) - (7+7))) \\
&:= 8/8 + (((8+8+8) \times 888/8) - 8) \\
&:= (9+9)/9 + (99 \times (9+9+9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2658 &:= (1+1) \times (11^{1+1+1} - 1 - 1) \\
&:= 2 \times ((22/2)^{2/2+2} - 2) \\
&:= 3 + (3 \times ((33 \times 3^3) - (3+3))) \\
&:= 4/4 + (((4-4/4) + 4)^4) + 4^4 \\
&:= 5 \times 555 - ((555+5)/5+5) \\
&:= 66 + (6 \times (6 \times (66+6))) \\
&:= (7-7/7) \times (7 \times (7 \times 7 + 7 + 7) + ((7+7)/7)) \\
&:= (88/8 - 8) \times (888 - ((8+8)/8)) \\
&:= 9 + (((9+9+9)/9) \times ((9 \times 99 - 9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2659 &:= (1+1) \times (11^{1+1+1} - 1) - 1 \\
&:= (22 \times (22/2)^2) - 2/2 - 2 \\
&:= ((3-3/3) \times (33/3)^3) - 3 \\
&:= 4 + ((44/4+4) \times (4 \times 44 + 4/4)) \\
&:= 5 \times 555 - (555/5+5) \\
&:= 66 + ((6 \times (6 \times (66+6))) + 6/6) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - (7/7+77+7) \\
&:= ((88/8-8) \times (888+8/8)) - 8 \\
&:= 9 + (9999/9 + (9 \times (9 \times (9+9) + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2660 &:= (1+1) \times (11^{1+1+1} - 1) \\
&:= (22 \times (22/2)^2) - 2 \\
&:= (3 - 3/3) \times ((33/3)^3 - 3/3) \\
&:= 4 \times (((4/4+4)^4 - 4) + 44) \\
&:= 5 + ((5 \times (555 - 5 \times 5)) + 5) \\
&:= (6 - ((6+6)/6)) \times (666 - 6/6) \\
&:= (77 - 7) \times (7 \times 7 - 77/7) \\
&:= (8 - 8/8) \times ((8 \times (88+8) - 8)/(8+8)/8) \\
&:= 99 \times (9+9+9) - ((99+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2661 &:= (1+1) \times 11^{1+1+1} - 1 \\
&:= (22 \times (22/2)^2) - 2/2 \\
&:= (3 \times ((33 \times 3^3) - 3)) - 3 \\
&:= 4 + (((4-4/4) + 4)^4) + 4^4 \\
&:= 55/5 + (5 \times (555 - 5 \times 5)) \\
&:= (66 \times (6 \times 6 + 6)) - 666/6 \\
&:= 7/7 + ((77 - 7) \times (7 \times 7 - 77/7)) \\
&:= (88/8 - 8) \times (888 - 8/8) \\
&:= 99 \times (9+9+9) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2662 &:= (1+1) \times 11^{1+1+1} \\
&:= 22 \times (22/2)^2 \\
&:= (3 - 3/3) \times (33/3)^3 \\
&:= (4+4)/4 \times ((44/4)^{4-4/4}) \\
&:= (5+5)/5 \times ((55/5)^{5-(5+5)/5}) \\
&:= ((6+6) \times (6 \times 6 \times 6 + 6)) - (6+6)/6 \\
&:= 7 \times 7 \times 77 - 7777/7 \\
&:= ((8+8)/8) \times ((88/8)^{88/8-8}) \\
&:= 99 \times (9+9+9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2663 &:= 1 + ((1+1) \times 11^{1+1+1}) \\
&:= 2/2 + (22 \times (22/2)^2) \\
&:= ((33/3+3)^3) - 3 \times 3^3 \\
&:= (444 \times ((4+4)/4+4)) - 4/4 \\
&:= 5 \times 555 - (555+5)/5 \\
&:= ((6+6) \times (6 \times 6 \times 6+6)) - 6/6 \\
&:= 7 + ((7/7+7) \times (7 \times 7 \times 7 - (77/7))) \\
&:= ((8+8+8) \times 888/8) - 8/8 \\
&:= 99 \times (9+9+9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2664 &:= (1+1) \times (1+11^{1+1+1}) \\
&:= 2 + (22 \times (22/2)^2) \\
&:= 3 \times ((33 \times 3^3) - 3) \\
&:= 444 \times ((4+4)/4+4) \\
&:= (5 \times 5 - 5/5) \times 555/5 \\
&:= (6+6) \times (6 \times 6 \times 6+6) \\
&:= (7/7+7) \times (((7-77)/7) + 7 \times 7 \times 7) \\
&:= (8+8+8) \times 888/8 \\
&:= 99 \times (9+9+9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2665 &:= 1 + (1+1) \times (1+11^{1+1+1}) \\
&:= ((222 \times (22+2)) + 2)/2 \\
&:= 3 + ((3-3/3) \times (33/3)^3) \\
&:= 4 + (((4-4/4) + 4^4) + 4^4) + 4 \\
&:= 5 \times 555 - (55+55) \\
&:= 6/6 + ((6+6) \times (6 \times 6 \times 6+6)) \\
&:= (7 - ((7+7)/7)) \times ((7 \times 77 - 7) + 7/7) \\
&:= 8/8 + ((8+8+8) \times 888/8) \\
&:= 9/9 + (99 \times (9+9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2666 &:= (1+1) \times (1+1+11^{1+1+1}) \\
&:= 2 + ((22 \times (22/2)^2) + 2) \\
&:= 3 + (((33/3+3)^3) - 3 \times 3^3) \\
&:= (44 - 4/4) \times (4^4 - 4 - 4)/4 \\
&:= 5 + ((5 \times (555 - 5 \times 5)) + (55/5)) \\
&:= (6+6)/6 + ((6+6) \times (6 \times 6 \times 6+6)) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - 7/7 - 77 \\
&:= (8+8)/8 + ((8+8+8) \times 888/8) \\
&:= (9+9)/9 + (99 \times (9+9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2667 &:= 1 + (1+1) \times (1+1+11^{1+1+1}) \\
&:= 2 + (((222 \times (22+2)) + 2)/2) \\
&:= 3 + (3 \times ((33 \times 3^3) - 3)) \\
&:= 4 + ((444 \times ((4+4)/4+4)) - 4/4) \\
&:= 5 + ((5 \times (555 - 5 \times 5)) + ((55+5)/5)) \\
&:= 6 + (((6 \times 6 \times 6+6)) - 666/6) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - 77 \\
&:= (88/8 - 8) \times (888 + 8/8) \\
&:= ((9+9+9)/9) + (99 \times (9+9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2668 &:= (1+1) \times (1+1+1+11^{1+1+1}) \\
&:= 2 \times (((2+2+2) \times 222) + 2) \\
&:= (3-3/3) \times ((33/3)^3 + 3) \\
&:= 4 + (444 \times ((4+4)/4+4)) \\
&:= (55/5 \times ((5 - (5+5)/5)^5)) - 5 \\
&:= (6 - ((6+6)/6)) \times (666 + 6/6) \\
&:= 7/7 + (7 \times 7 \times (7 \times 7 + 7) - 77) \\
&:= 8/8 + ((88/8 - 8) \times (888 + 8/8)) \\
&:= ((9-99)/(9+9)) + 99 \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2669 &:= 1 + (1+1) \times (1+1+1+11^{1+1+1}) \\
&:= 2 + (((222 \times (22+2)) + 2)/2) + 2 \\
&:= (3 \times (33 \times 3^3)) - (3/3+3) \\
&:= (4/4+4)^4 + (4^4 \times (4+4) - 4) \\
&:= 5 + ((5 \times 5 - 5/5) \times 555/5) \\
&:= 6 + (((6+6) \times (6 \times 6 \times 6+6)) - 6/6) \\
&:= 7 + (7 \times 7 \times 77 - 7777/7) \\
&:= 8 + ((88/8 - 8) \times (888 - 8/8)) \\
&:= ((9-9 \times 9)/(9+9)) + 99 \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2670 &:= 11 + (((1+1) \times (11^{1+1+1} - 1)) - 1) \\
&:= 2 + (2 \times (((2+2+2) \times 222) + 2)) \\
&:= (3 \times (33 \times 3^3)) - 3 \\
&:= ((4+4)/4+4) \times (444 + 4/4) \\
&:= (5 \times (555 - 5 - 5)) - 55 \\
&:= 6 + ((6+6) \times (6 \times 6 \times 6+6)) \\
&:= 7 \times (77 - 7) + (((7+7+7)/7)^7 - 7) \\
&:= (88/8 - 8) \times (888 + ((8+8)/8)) \\
&:= ((9+9+9)/9) \times (9 \times 99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2671 &:= 11 + ((1+1) \times (11^{1+1+1} - 1)) \\
&:= (22/2 \times (22^2 + 2)/2) - 2 \\
&:= 3/3 + ((3 \times (33 \times 3^3)) - 3) \\
&:= (4^4 \times (44 - 4) + 444)/4 \\
&:= 5/5 + ((5 \times (555 - 5 - 5)) - 55) \\
&:= 6 + (((6+6) \times (6 \times 6 \times 6+6)) + 6/6) \\
&:= 7 + ((7/7+7) \times (((7-77)/7) + 7 \times 7 \times 7)) \\
&:= 8 + (((8+8+8) \times 888/8) - 8/8) \\
&:= 99 \times (9+9+9) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2672 &:= 11 + (((1+1) \times 11^{1+1+1}) - 1) \\
&:= 2 \times (((2+2+2) \times 222) + 2) + 2 \\
&:= (3 \times (33 \times 3^3)) - 3/3 \\
&:= 4 \times ((4 \times (4 \times 44 - (4+4))) - 4) \\
&:= (5^5 - 5)/5 + (((5+5)/5)^{55/5}) \\
&:= 6 + (((6+6) \times (6 \times 6 \times 6+6)) + ((6+6)/6)) \\
&:= (7/7+7) \times (7 \times 7 \times 7 - ((7+7)/7+7)) \\
&:= 8 + ((8+8+8) \times 888/8) \\
&:= 99 \times (9+9+9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2673 &:= 11 + ((1+1) \times 11^{1+1+1}) \\
&:= 22/2 \times (22^2 + 2)/2 \\
&:= 3 \times (33 \times 3^3) \\
&:= (4/4+4)^4 + 4^4 \times (4+4) \\
&:= 55/5 \times ((5 - (5+5)/5)^5) \\
&:= 66/6 \times (((6 \times 6)/(6+6))^{6-6/6}) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) - (7/7+77)) \\
&:= 8 + (((8+8+8) \times 888/8) + 8/8) \\
&:= 99 \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2674 &:= 1 + (11 + ((1+1) \times 11^{1+1+1})) \\
&:= (2+2+2) \times (2 \times 222 + 2) - 2 \\
&:= 3/3 + (3 \times (33 \times 3^3)) \\
&:= 4 + (((4+4)/4+4) \times (444 + 4/4)) \\
&:= (5 - 5/5)^5 + (55 \times (5 \times 5 + 5)) \\
&:= 6 + ((6 - ((6+6)/6)) \times (666 + 6/6)) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) - 77) \\
&:= 8 + (((8+8+8) \times 888/8) + ((8+8)/8)) \\
&:= 9/9 + 99 \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2675 &:= 11 + (1+1) \times (1+11^{1+1+1}) \\
&:= 2 + (22/2 \times (22^2 + 2)/2) \\
&:= 3 + ((3 \times (33 \times 3^3)) - 3/3) \\
&:= (4 \times ((4/4+4)^4 + 44)) - 4/4 \\
&:= 5 \times ((555 - 5 \times 5) + 5) \\
&:= 66/6 + ((6+6) \times (6 \times 6 \times 6+6)) \\
&:= 7 + ((7 \times 7 \times (7 \times 7 + 7) - 77) + 7/7) \\
&:= 8 + ((88/8 - 8) \times (888 + 8/8)) \\
&:= (9+9)/9 + 99 \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2676 &:= (1+11) \times (1+(1+1) \times 111) \\
&:= (2+2+2) \times (2 \times 222 + 2) \\
&:= 3 + (3 \times (33 \times 3^3)) \\
&:= 4 \times ((4/4+4)^4 + 44) \\
&:= 5/5 + (5 \times ((555 - 5 \times 5) + 5)) \\
&:= 6 + (((6+6) \times (6 \times 6 \times 6+6)) + 6) \\
&:= 7 + ((7 \times 7 \times 77 - 7777/7) + 7) \\
&:= ((88+8)/8) + ((8+8+8) \times 888/8) \\
&:= ((9+9+9)/9) + 99 \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2677 &:= 1 + ((1+11) \times (1+(1+1) \times 111)) \\
&:= 2 + ((22/2 \times (22^2 + 2)/2) + 2) \\
&:= 3 + ((3 \times (33 \times 3^3)) + 3/3) \\
&:= 4 + ((4/4+4)^4 + 4^4 \times (4+4)) \\
&:= 5^5 + ((5/5 - 5) \times (555 + 5)/5) \\
&:= 6 + (((6+6) \times (6 \times 6 \times 6+6)) + 6/6) + 6 \\
&:= 7 \times (77 - 7) + ((7+7+7)/7)^7 \\
&:= ((8+8) \times (88 - 8 + 88)) - 88/8 \\
&:= 99 \times (9+9+9) + ((9 \times 9 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2678 &:= 1 + (1 + ((1 + 11) \times (1 + (1 + 1) \times 111))) \\
&:= 2 + (2 + 2 + 2) \times (2 \times 222 + 2) \\
&:= 3 + (((3 \times (33 \times 3^3)) - 3/3) + 3) \\
&:= (4 + 4)/4 + (4 \times ((4/4 + 4)^4 + 44)) \\
&:= 5 + (55/5 \times ((5 - (5 + 5)/5)^5)) \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 + 6)) + ((6 + 6)/6)) + 6 \\
&:= 77 + (((7 + 7)/7 + 7 \times 7)^{(7+7)/7}) \\
&:= 8 + ((88/8 - 8) \times (888 + ((8 + 8)/8))) \\
&:= 99 \times (9 + 9 + 9) + ((9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2679 &:= 1 + (1 + (1 + ((1 + 11) \times (1 + (1 + 1) \times 111)))) \\
&:= 2 + (((22/2 \times (22^2 + 2)/2) + 2) + 2) \\
&:= 3 + ((3 \times (33 \times 3^3)) + 3) \\
&:= 4 + ((4 \times ((4/4 + 4)^4 + 44)) - 4/4) \\
&:= 5 + ((55 \times (5 \times 5 + 5)) + (5 - 5/5)^5) \\
&:= 6 + ((66/6) \times ((6 \times 6/(6 + 6))^{6-6/6})) \\
&:= (7 \times 7 - (7 + 7)/7) \times (7/7 + 7 \times 7 + 7) \\
&:= ((8 + 8) \times (88 - 8 + 88)) - (8/8 + 8) \\
&:= 9 + (((9 + 9 + 9)/9) \times (9 \times 99 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2680 &:= (1 + 1) \times (11 + 11^{1+1+1} - 1 - 1) \\
&:= 2 \times ((2 + 2 + 2)^{2+2} + 2 \times 22) \\
&:= 3 + (((3 \times (33 \times 3^3)) + 3/3) + 3) \\
&:= 4 + (4 \times ((4/4 + 4)^4 + 44)) \\
&:= 5 + (5 \times ((555 - 5 \times 5) + 5)) \\
&:= (66 + 6/6) \times ((6 \times 6 - ((6 + 6)/6)) + 6) \\
&:= (7/7 + 7) \times (7 \times 7 \times 7 - (7/7 + 7)) \\
&:= ((8 + 8) \times (88 - 8 + 88)) - 8 \\
&:= 9 + (99 \times (9 + 9 + 9) - (9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2681 &:= ((1 + 1) \times (11 + (11^{1+1+1} - 1))) - 1 \\
&:= 22^2 + ((22/2 + 2)^{2/2+2}) \\
&:= (3 \times ((33 \times 3^3) + 3)) - 3/3 \\
&:= ((4/4 + 4)^{4+4/4}) - 444 \\
&:= 5^5 + ((5/5 - 5) \times 555/5) \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 + 6)) + (66/6)) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - 7)) - (7 + 7) \\
&:= 8/8 + (((8 + 8) \times (88 - 8 + 88)) - 8) \\
&:= 9 + (99 \times (9 + 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2682 &:= (1 + 1) \times (11 + (11^{1+1+1} - 1)) \\
&:= (2 \times (22 + 2 + 2))^2 - 22 \\
&:= 3 \times ((33 \times 3^3) + 3) \\
&:= ((4 + 4)/4 + 4) \times ((444 - 4/4) + 4) \\
&:= 5^5 + ((555 + 5)/5 - 555) \\
&:= ((6 \times 6 + 6) \times ((6 + 6)/6)^6) - 6 \\
&:= 7/7 + (((7 \times (7 \times (7 \times 7 + 7) - 7)) - (7 + 7))) \\
&:= (8 - (8 + 8)/8) \times (8 \times (8 \times 8 - 8) - 8/8) \\
&:= 9 + 99 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2683 &:= ((1 + 1) \times (11 + 11^{1+1+1})) - 1 \\
&:= (22 \times (22^2/2 + 2) - 2)/2 \\
&:= 3/3 + (3 \times ((33 \times 3^3) + 3)) \\
&:= (44 \times ((4^4 + 4)/4 - 4)) - 4/4 \\
&:= 5 + ((55/5 \times ((5 - (5 + 5)/5)^5)) + 5) \\
&:= 6/6 + (((6 \times 6 + 6) \times ((6 + 6)/6)^6) - 6) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - 7)) - (77 + 7)/7 \\
&:= 8 + (((88/8 - 8) \times (888 + 8/8)) + 8) \\
&:= 9 + (99 \times (9 + 9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2684 &:= (1 + 1) \times (11 + 11^{1+1+1}) \\
&:= 22 + (22 \times (22/2)^2) \\
&:= 33/3 + (3 \times (33 \times 3^3)) \\
&:= 44 \times ((4^4 + 4)/4 - 4) \\
&:= 5^5 - (((55/5 + 5) + 5)^{(5+5)/5}) \\
&:= (6 - ((6 + 6)/6)) \times ((666 - 6/6) + 6) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - 7)) - 77/7 \\
&:= (((8 \times 8 - 8) \times (88 + 8)) - 8)/(8 + 8)/8 \\
&:= 99/9 + 99 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2685 &:= 1 + ((1 + 1) \times (11 + 11^{1+1+1})) \\
&:= ((22 \times (22^2/2 + 2)) + 2)/2 \\
&:= 3 + (3 \times ((33 \times 3^3) + 3)) \\
&:= 4/4 + (44 \times ((4^4 + 4)/4 - 4)) \\
&:= 5 + ((5 \times ((555 - 5 \times 5) + 5)) + 5) \\
&:= ((6 \times 6 + 6) \times ((6 + 6)/6)^6) - 6 \times 6/(6 + 6) \\
&:= ((7 - 77)/7) + (7 \times (7 \times (7 \times 7 + 7) - 7)) \\
&:= (88/8 - 8) \times (888 - 8/8 + 8) \\
&:= ((99 + 9)/9) + 99 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2686 &:= (1 + 1) \times (1 + (11 + 11^{1+1+1})) \\
&:= 2 + ((22 \times (22/2)^2) + 22) \\
&:= 3 + ((3 \times ((33 \times 3^3) + 3)) + 3/3) \\
&:= (4 + 4)/4 + (44 \times ((4^4 + 4)/4 - 4)) \\
&:= 5 + (((5/5 - 5) \times 555/5) + 5^5) \\
&:= ((6 \times 6 + 6) \times ((6 + 6)/6)^6) - (6 + 6)/6 \\
&:= (7 \times (7 \times (7 \times 7 + 7) - 7)) - ((7 + 7)/7 + 7) \\
&:= ((8 + 8) \times (88 - 8 + 88)) - (8 + 8)/8 \\
&:= 99 \times (9 + 9 + 9) + ((99 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2687 &:= ((1 + 1) \times ((1 + 11) \times (1 + 111))) - 1 \\
&:= (((22 + 2) \times (222 + 2)) - 2)/2 \\
&:= 3 + ((3 \times (33 \times 3^3)) + 33/3) \\
&:= (4 \times (4 \times (4 \times 44 - (4 + 4)))) - 4/4 \\
&:= 5^5 - ((5^5 + 5)/(5 + 5) + 5 \times 5 \times 5) \\
&:= ((6 \times 6 + 6) \times ((6 + 6)/6)^6) - 6/6 \\
&:= (7 \times (7 \times (7 \times 7 + 7) - 7)) - (7/7 + 7) \\
&:= ((8 + 8) \times (88 - 8 + 88)) - 8/8 \\
&:= 9 + (99 \times (9 + 9 + 9) + ((9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2688 &:= (1 + 1) \times ((1 + 11) \times (1 + 111)) \\
&:= 2 \times ((2 + 2 + 2) \times (222 + 2)) \\
&:= 3 + ((3 \times ((33 \times 3^3) + 3)) + 3) \\
&:= 4 \times (4 \times (4 \times 44 - (4 + 4))) \\
&:= (5 \times 5 - 5/5) \times (555 + 5)/5 \\
&:= (6 \times 6 + 6) \times ((6 + 6)/6)^6 \\
&:= (7/7 + 7) \times (7 \times 7 \times 7 - 7) \\
&:= (8 + 8) \times (88 - 8 + 88) \\
&:= 9 + (((9 + 9 + 9)/9) \times (9 \times 99 - 9/9)) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2689 &:= 1 + ((1 + 1) \times ((1 + 11) \times (1 + 111))) \\
&:= (((22 + 2) \times (222 + 2)) + 2)/2 \\
&:= 3^3 + ((3 - 3/3) \times (33/3)^3) \\
&:= 4/4 + (4 \times (4 \times (4 \times 44 - (4 + 4)))) \\
&:= (5 \times (555 + 5)) - 555/5 \\
&:= 6/6 + ((6 \times 6 + 6) \times ((6 + 6)/6)^6) \\
&:= 7/7 + ((7/7 + 7) \times (7 \times 7 \times 7 - 7)) \\
&:= 8/8 + ((8 + 8) \times (88 - 8 + 88)) \\
&:= 9 + ((99 \times (9 + 9 + 9) - (9 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2690 &:= (1 + 1) \times (1 + ((1 + 11) \times (1 + 111))) \\
&:= 2 + (2 \times ((2 + 2 + 2) \times (222 + 2))) \\
&:= ((33/3 + 3)^3) - (3^3 + 3^3) \\
&:= (4 + 4)/4 + (4 \times (4 \times (4 \times 44 - (4 + 4)))) \\
&:= (5 + 5) \times (5 \times 55 - (5/5 + 5)) \\
&:= (6 + 6)/6 + ((6 \times 6 + 6) \times ((6 + 6)/6)^6) \\
&:= (7 - ((7 + 7)/7)) \times (7 \times 77 - 7/7) \\
&:= (8 + 8)/8 + ((8 + 8) \times (88 - 8 + 88)) \\
&:= 9 + ((99 \times (9 + 9 + 9) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2691 &:= 1 + ((1 + 1) \times (1 + ((1 + 11) \times (1 + 111)))) \\
&:= 2 + (((22 + 2) \times (222 + 2)) + 2)/2 \\
&:= 3 \times (((33 \times 3^3) + 3) + 3) \\
&:= (44/4 \times (4^4 - 44/4)) - 4 \\
&:= 5/5 + ((5 + 5) \times (5 \times 55 - (5/5 + 5))) \\
&:= ((66/6 + 6) + 6) \times (666/6 + 6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) - 7)) - (77/7)) \\
&:= (88/8 - 8) \times (888 + 8/8 + 8) \\
&:= 9 + (99 \times (9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2692 &:= (1 + 1) \times (1 + (1 + ((1 + 11) \times (1 + 111)))) \\
&:= 2 \times (((2 + 2 + 2) \times (222 + 2)) + 2) \\
&:= 3/3 + (3 \times (((33 \times 3^3) + 3) + 3)) \\
&:= 4 + (4 \times (4 \times (4 \times 44 - (4 + 4)))) \\
&:= 5 + (5^5 - ((5^5 + 5)/(5 + 5) + 5 \times 5 \times 5)) \\
&:= ((6 + 6)/6)^6 + (6 \times ((6 \times (66 + 6)) + 6)) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - 7)) - (7 + 7 + 7)/7 \\
&:= (((8 \times 8 - 8) \times (88 + 8)) + 8)/(8 + 8)/8 \\
&:= 9 + ((99 \times (9 + 9 + 9) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2693 &:= 1 + ((1 + 1) \times (1 + (1 + ((1 + 11) \times (1 + 111)))))) \\
&:= (2 \times (22 + 2 + 2))^2 - 22/2 \\
&:= 33/3 + (3 \times ((33 \times 3^3) + 3)) \\
&:= 4 + ((4 \times (4 \times (4 \times 44 - (4 + 4)))) + 4/4) \\
&:= 5 + ((5 \times 5 - 5/5) \times (555 + 5)/5) \\
&:= 6 + (((6 \times 6 + 6) \times ((6 + 6)/6)^6) - 6/6) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - 7)) - (7 + 7)/7 \\
&:= 8 + ((88/8 - 8) \times (888 - 8/8 + 8)) \\
&:= 9 + (99 \times (9 + 9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2694 &:= (11 \times (1 + ((1 + 1) \times (1 + 11^{1+1})))) - 1 \\
&:= (2 \times (2 \times ((22 + 2 + 2)^2) - 2)) - 2 \\
&:= 3 + (3 \times (((33 \times 3^3) + 3) + 3)) \\
&:= ((44 \times (4^4 - 44/4)) - 4)/4 \\
&:= (5 \times (5 + 5) \times 55) - (55 + 5/5) \\
&:= 6 + ((6 \times 6 + 6) \times ((6 + 6)/6)^6) \\
&:= (7 \times (7 \times (7 \times 7 + 7) - 7)) - 7/7 \\
&:= (8 - (8 + 8)/8) \times (8 \times (8 \times 8 - 8) + 8/8) \\
&:= 9 + (99 \times (9 + 9 + 9) + ((99 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2695 &:= 11 \times (1 + ((1 + 1) \times (1 + 11^{1+1}))) \\
&:= 22/2 \times ((22^2 + 2)/2 + 2) \\
&:= 33 + ((3 - 3/3) \times (33/3)^3) \\
&:= 44/4 \times (4^4 - 44/4) \\
&:= 55 \times (55 - (5/5 + 5)) \\
&:= (6/6 + 6) \times (6 \times 66 - (66/6)) \\
&:= 7 \times (7 \times (7 \times 7 + 7) - 7) \\
&:= 8 + (((8 + 8) \times (88 - 8 + 88)) - 8/8) \\
&:= 99/9 \times (9 \times (9 + 9 + 9) + ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2696 &:= 1 + (11 \times (1 + ((1 + 1) \times (1 + 11^{1+1})))) \\
&:= 2 \times (2 \times ((22 + 2 + 2)^2) - 2) \\
&:= 3 + ((3 \times ((33 \times 3^3) + 3)) + 33/3) \\
&:= (4 + 4) \times (((4 - 4/4) + 4)^4) + 4^4 \\
&:= 5/5 + (55 \times (55 - (5/5 + 5))) \\
&:= 6 + (((6 \times 6 + 6) \times ((6 + 6)/6)^6) + ((6 + 6)/6)) \\
&:= 7/7 + (7 \times (7 \times (7 \times 7 + 7) - 7)) \\
&:= 8 + ((8 + 8) \times (88 - 8 + 88)) \\
&:= 9 \times (9 \times 9 - 9) + (((9 + 9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2697 &:= 1 + (1 + (11 \times (1 + ((1 + 1) \times (1 + 11^{1+1})))))) \\
&:= 2 + (22/2 \times ((22^2 + 2)/2 + 2)) \\
&:= 3^3 + ((3 \times (33 \times 3^3)) - 3) \\
&:= 44 + (((((4 - 4/4) + 4)^4) - 4) + 4^4) \\
&:= (5 + 5)/5 + (55 \times (55 - (5/5 + 5))) \\
&:= 666/6 + ((6 \times (6 \times (66 + 6))) - 6) \\
&:= (7 + 7)/7 + (7 \times (7 \times (7 \times 7 + 7) - 7)) \\
&:= 8 + (((8 + 8) \times (88 - 8 + 88)) + 8/8) \\
&:= ((9 + 9 + 9)/9) \times ((9 \times 99 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2698 &:= 11 + (((1 + 1) \times ((1 + 11) \times (1 + 111))) - 1) \\
&:= 2 + (2 \times (2 \times ((22 + 2 + 2)^2) - 2)) \\
&:= 3 + (((3 - 3/3) \times (33/3)^3) + 33) \\
&:= 4 + (((44 \times (4^4 - 44/4)) - 4)/4) \\
&:= ((5 + 5) \times (5 \times 55 - 5)) - (5 + 5)/5 \\
&:= ((6 + 6)/6 + 6 \times 6) \times ((66 - 6/6) + 6) \\
&:= (7 + 7 + 7)/7 + (7 \times (7 \times (7 \times 7 + 7) - 7)) \\
&:= 8 + (((8 + 8) \times (88 - 8 + 88)) + ((8 + 8)/8)) \\
&:= ((9 + 9 + 9) \times (9/9 + 99)) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2699 &:= 11 + ((1 + 1) \times ((1 + 11) \times (1 + 111))) \\
&:= (2 \times (22 + 2 + 2))^2 - (2/2 + 2 + 2) \\
&:= 3^3 + ((3 \times (33 \times 3^3)) - 3/3) \\
&:= 4 + (44/4 \times (4^4 - 44/4)) \\
&:= ((5 + 5) \times (5 \times 55 - 5)) - 5/5 \\
&:= (6 \times (666 - 6 \times 6 \times 6)) - 6/6 \\
&:= 77/7 + ((7/7 + 7) \times (7 \times 7 \times 7 - 7)) \\
&:= 8 \times 8 \times 8 + ((88/8 - 8)^{8-8/8}) \\
&:= (((9 + 9)/9)^9) + 9 \times 9 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2700 &:= (1 + 11) \times (1 + ((1 + 1) \times (1 + 111))) \\
&:= 2 \times (2 \times ((22 + 2 + 2)^2) - 2) \\
&:= 3 \times ((33 \times 3^3) + 3 \times 3) \\
&:= (4/4 + 4 + 4) \times (44 + 4^4) \\
&:= (5 + 5) \times (5 \times 55 - 5) \\
&:= 6 \times (666 - 6 \times 6 \times 6) \\
&:= (7 - ((7 + 7)/7)) \times (7 \times 77 + 7/7) \\
&:= 8 + (((8 \times 8 - 8) \times (88 + 8)) + 8)/((8 + 8)/8) \\
&:= (9 + 9 + 9) \times (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2701 &:= 1 + ((1 + 11) \times (1 + ((1 + 1) \times (1 + 111)))) \\
&:= (2 \times (22 + 2 + 2))^2 - 2/2 - 2 \\
&:= 3^3 + ((3 \times (33 \times 3^3)) + 3/3) \\
&:= 44 + (((4 - 4/4) + 4)^4) + 4^4 \\
&:= 5/5 + ((5 + 5) \times (5 \times 55 - 5)) \\
&:= 6/6 + (6 \times (666 - 6 \times 6 \times 6)) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) - 7)) - 7/7) \\
&:= ((8/8 + 8 \times 8) + 8) \times 888/(8 + 8 + 8) \\
&:= 9/9 + ((9 + 9 + 9) \times (9/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2702 &:= 1 + (1 + ((1 + 11) \times (1 + ((1 + 1) \times (1 + 111)))))) \\
&:= (2 \times (22 + 2 + 2))^2 - 2 \\
&:= ((33/3 + 3)^3) - (3 \times 3 + 33) \\
&:= ((44 + 4 + 4)^{(4+4)/4}) - (4 + 4)/4 \\
&:= (5 + 5)/5 + ((5 + 5) \times (5 \times 55 - 5)) \\
&:= (6 + 6)/6 + (6 \times (666 - 6 \times 6 \times 6)) \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) - 7)) \\
&:= 8 + ((8 - (8 + 8)/8) \times (8 \times (8 \times 8 - 8) + 8/8)) \\
&:= 9 + ((99 \times (9 + 9 + 9) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2703 &:= (((1 + 1) \times ((1 + 1) \times (1 + 1 + 11)))^{1+1}) - 1 \\
&:= (2 \times (22 + 2 + 2))^2 - 2/2 \\
&:= 3 + ((3 \times (33 \times 3^3)) + 3^3) \\
&:= ((44 + 4 + 4)^{(4+4)/4}) - 4/4 \\
&:= 5 + (((5 + 5) \times (5 \times 55 - 5)) - ((5 + 5)/5)) \\
&:= 666/6 + (6 \times (6 \times (66 + 6))) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) - 7)) + 7/7) \\
&:= 8 + (((8 + 8) \times (88 - 8 + 88)) - 8/8) + 8 \\
&:= ((9 + 9 + 9)/9) \times ((9 \times 99 + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2704 &:= ((1 + 1) \times ((1 + 1) \times (1 + 1 + 11)))^{1+1} \\
&:= (2 \times (22 + 2 + 2))^2 \\
&:= 3 + (((3 \times (33 \times 3^3)) + 3^3) + 3/3) \\
&:= (44 + 4 + 4)^{(4+4)/4} \\
&:= 5 + (((5 + 5) \times (5 \times 55 - 5)) - 5/5) \\
&:= (((6 + 6)/6)^6 - (6 + 6))^{(6+6)/6} \\
&:= (((7 + 7 + 7)/7) + 7 \times 7)^{(7+7)/7} \\
&:= 8 + (((8 + 8) \times (88 - 8 + 88)) + 8) \\
&:= (9 \times 9 - (99/9 + 9 + 9))^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2705 &:= 1 + (((1 + 1) \times ((1 + 1) \times (1 + 1 + 11)))^{1+1}) \\
&:= 2/2 + (2 \times (22 + 2 + 2))^2 \\
&:= 33 + ((3 \times (33 \times 3^3)) - 3/3) \\
&:= 4/4 + ((44 + 4 + 4)^{(4+4)/4}) \\
&:= 5 + ((5 + 5) \times (5 \times 55 - 5)) \\
&:= (66 \times (6 \times 6 + 6)) - (66 + 6/6) \\
&:= ((77 - 7)/7) + (7 \times (7 \times (7 \times 7 + 7) - 7)) \\
&:= (88 \times ((8 + 8 + 8) + 8)) - 888/8 \\
&:= 9 + (((9 + 9)/9)^{99/9}) + 9 \times (9 \times 9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2706 &:= (1 + 1) \times (11 \times (1 + (1 + 11^{1+1}))) \\
&:= 2 + (2 \times (22 + 2 + 2))^2 \\
&:= 33 + (3 \times (33 \times 3^3)) \\
&:= 44/4 \times ((4 - 44)/4 + 4^4) \\
&:= 5 + (((5 + 5) \times (5 \times 55 - 5)) + 5/5) \\
&:= 66 \times (6 \times 6 - 6/6 + 6) \\
&:= 77/7 + (7 \times (7 \times (7 \times 7 + 7) - 7)) \\
&:= 88/8 \times ((8 - 88)/8 + (8 + 8) \times (8 + 8)) \\
&:= ((9 + 9 + 9)/9) \times ((99/9) + 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2707 &:= 1 + ((1 + 1) \times (11 \times (1 + (1 + 11^{1+1})))) \\
&:= 2 + ((2 \times (22 + 2 + 2))^2 + 2/2) \\
&:= 3/3 + ((3 \times (33 \times 3^3)) + 33) \\
&:= (44 \times (4^4 - 4) - (4^4 + 4))/4 \\
&:= 5 + (((5 + 5) \times (5 \times 55 - 5)) + ((5 + 5)/5)) \\
&:= 6/6 + (66 \times (6 \times 6 - 6/6 + 6)) \\
&:= 7 + ((7 - ((7 + 7)/7)) \times (7 \times 77 + 7/7)) \\
&:= 8 + (((8 + 8) \times (88 - 8 + 88)) + (88/8)) \\
&:= 9 + (((9 + 9 + 9) \times (9/9 + 99)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2708 &:= (1+1) \times (1+(11 \times (1+(1+11^{1+1})))) \\
&:= 2 + ((2 \times (22+2+2))^2 + 2) \\
&:= ((33/3+3)^3) - (33+3) \\
&:= 4 + ((44+4+4)^{(4+4)/4}) \\
&:= 5^5 - ((5^5+5^5+5)/(5+5+5)) \\
&:= (66 \times (6 \times 6+6)) - ((6+6)/6)^6 \\
&:= 7 + (((7 \times (7 \times (7 \times 7+7) - 7)) - 7/7) + 7) \\
&:= ((8 \times (8 \times 88 - (8+8))) - 88)/((8+8)/8) \\
&:= 9 + (9 \times 9 \times (9+9+9) + (((9+9)/9)^9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2709 &:= 1 + ((1+1) \times (1+(11 \times (1+(1+11^{1+1})))))) \\
&:= 2 + (((2 \times (22+2+2))^2 + 2/2) + 2) \\
&:= 3 + ((3 \times (33 \times 3^3)) + 33) \\
&:= ((4^4 - 4)/4) \times (44 - 4/4) \\
&:= 5 \times 555 - (55/5 + 55) \\
&:= 6 + ((6 \times (6 \times (66+6))) + 666/6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7+7) - 7)) + 7) \\
&:= (88/8 - 8) \times ((888 - 8/8 + 8) + 8) \\
&:= 9 + ((9+9+9) \times (9/9+99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2710 &:= (1+1) \times (11 + ((1+11) \times (1+111))) \\
&:= 2 + (((2 \times (22+2+2))^2 + 2) + 2) \\
&:= ((33/3+3)^3) - 3/3 - 33 \\
&:= (((4^4 - 4) \times (44 - 4/4)) + 4)/4 \\
&:= 5 + (((5+5) \times (5 \times 55 - 5)) + 5) \\
&:= 6 + (((6+6)/6)^6 - (6+6)^{(6+6)/6}) \\
&:= 7 + (((7 \times (7 \times (7 \times 7+7) - 7)) + 7/7) + 7) \\
&:= 8 + (((8 - (8+8)/8) \times (8 \times (8 \times 8 - 8) + 8/8)) + 8) \\
&:= 9 + (((9+9+9) \times (9/9+99)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2711 &:= ((1+1) \times ((1+11) \times (1+1+111))) - 1 \\
&:= (2 \times (22-2))^2 + 2222/2 \\
&:= ((33/3+3)^3) - 33 \\
&:= 4 + ((44 \times (4^4 - 4) - (4^4 + 4))/4) \\
&:= 55/5 + ((5+5) \times (5 \times 55 - 5)) \\
&:= 6 + ((66 \times (6 \times 6+6)) - (66+6/6)) \\
&:= 7 + (((7+7+7)/7) + 7 \times 7)^{(7+7)/7} \\
&:= 8888/8 + 8 \times (8 \times (8+8+8) + 8) \\
&:= 99/9 + ((9+9+9) \times (9/9+99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2712 &:= (1+1) \times ((1+11) \times (1+1+111)) \\
&:= 2 \times (2 \times (((22+2+2)^2) + 2)) \\
&:= 3 + (((3 \times (33 \times 3^3)) + 33) + 3) \\
&:= 4 + (((44+4+4)^{(4+4)/4}) + 4) \\
&:= 55 \times 55 - (5^5 + 5)/(5+5) \\
&:= 6 + (66 \times (6 \times 6 - 6/6+6)) \\
&:= 7 \times 77 + (((7+7+7)/7)^7 - (7+7)) \\
&:= (8+8+8) \times ((888+8+8)/8) \\
&:= 9 + (((9+9+9)/9) \times ((9 \times 99+9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2713 &:= 1 + ((1+1) \times ((1+11) \times (1+1+111))) \\
&:= 2/2 + (2 \times (2 \times (((22+2+2)^2) + 2))) \\
&:= 3 + (((33/3+3)^3) - (3/3+33)) \\
&:= 4 + (((4^4 - 4)/4) \times (44 - 4/4)) \\
&:= 55 \times 55 + ((5 - 5^5)/(5+5)) \\
&:= 6 + ((66 \times (6 \times 6 - 6/6+6)) + 6/6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7+7) - 7)) + (77/7)) \\
&:= 8 + ((88 \times ((8+8+8) + 8)) - 888/8) \\
&:= 9 + ((9 \times 9 - (99/9+9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2714 &:= (1+1) \times (1 + ((1+11) \times (1+1+111))) \\
&:= 2 + (2 \times (2 \times (((22+2+2)^2) + 2))) \\
&:= 3 + (((33/3+3)^3) - 33) \\
&:= 4 + (((4^4 - 4) \times (44 - 4/4)) + 4)/4 \\
&:= 5 \times 555 - ((55+5/5) + 5) \\
&:= 666 + (((6+6)/6)^{66/6}) \\
&:= ((7 \times 777) - (77/7))/(7+7)/7 \\
&:= ((8 - 8/8 + 8) + 8) \times ((888 - 8)/8 + 8) \\
&:= 99 \times (9+9+9) + ((9 \times 9 \times 9+9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2715 &:= 1 + ((1+1) \times (1 + ((1+11) \times (1+1+111)))) \\
&:= 22/2 + (2 \times (22+2+2))^2 \\
&:= 33 + (3 \times ((33 \times 3^3) + 3)) \\
&:= 44/4 + ((44+4+4)^{(4+4)/4}) \\
&:= 5 \times 555 - (55+5) \\
&:= 6 + (((6 \times (6 \times (66+6))) + 666/6) + 6) \\
&:= 7 \times (7 \times (7 \times 7+7) + 7) - 7/7 - 77 \\
&:= (88/8 - 8) \times ((888+8/8+8) + 8) \\
&:= 9 + (((9+9+9)/9) \times ((99/9) + 9 \times 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2716 &:= (1+1) \times (1 + (1 + ((1+11) \times (1+1+111)))) \\
&:= 2 \times (2 \times (((22+2+2)^2) + 2)) + 2 \\
&:= (3 - 3/3) \times ((33/3)^3 + 3^3) \\
&:= ((44 - 4) \times (4 \times 4 \times 4 + 4)) - 4 \\
&:= 5/5 + (5 \times 555 - (55+5)) \\
&:= (6/6+6) \times (6 \times 66 - ((6+6)/6+6)) \\
&:= 7 \times (((7 \times 777) - 7)/(7+7)) \\
&:= (8 - 8/8) \times ((8 \times (88+8) + 8)/(8+8)/8) \\
&:= ((9/9+9+9) + 9) \times (99 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2717 &:= 11 \times (1 + ((1+1) \times (1 + (1+11^{1+1})))) \\
&:= 2 + ((2 \times (22+2+2))^2 + 22/2) \\
&:= ((33/3+3)^3) - 3^3 \\
&:= 44/4 \times (4^4 - (4/4+4+4)) \\
&:= 5 + (55 \times 55 - (5^5+5)/(5+5)) \\
&:= 66/6 + (66 \times (6 \times 6 - 6/6+6)) \\
&:= 7/7 + (7 \times (((7 \times 777) - 7)/(7+7))) \\
&:= 88/8 \times ((8+8) \times (8+8) - (8/8+8)) \\
&:= 99/9 \times (((9+9)/9)^{9-9/9} - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2718 &:= 1 + (11 \times (1 + ((1+1) \times (1 + (1+11^{1+1})))))) \\
&:= 2 + (2 \times (2 \times (((22+2+2)^2) + 2))) \\
&:= 3 + ((3 \times ((33 \times 3^3) + 3)) + 33) \\
&:= ((44 - 4) \times (4 \times 4 \times 4 + 4)) - (4+4)/4 \\
&:= 5 \times 555 - ((5+5)/5 + 55) \\
&:= 6 + ((66 \times (6 \times 6 - 6/6+6)) + 6) \\
&:= 7 + (((7+7+7)/7) + 7 \times 7)^{(7+7)/7} + 7) \\
&:= (((8+8)/8) + 8) + 8) \times ((88 - 8/8) + 8 \times 8) \\
&:= (9+9) \times (9 \times (9+9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2719 &:= 1 + (1 + (11 \times (1 + ((1+1) \times (1 + (1+11^{1+1})))))) \\
&:= 2 + (((2 \times (22+2+2))^2 + 22/2) + 2) \\
&:= 3 + ((3 - 3/3) \times ((33/3)^3 + 3^3)) \\
&:= ((44 - 4) \times (4 \times 4 \times 4 + 4)) - 4/4 \\
&:= 5 \times 555 - (55+5/5) \\
&:= ((6/6+6) \times (6 \times 66 - 6)) - 66/6 \\
&:= 7 \times 77 + (((7+7+7)/7)^7 - 7) \\
&:= (88 \times ((8+8+8) + 8)) - ((8/8+88) + 8) \\
&:= 9/9 + ((9+9) \times (9 \times (9+9) - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2720 &:= ((1 + ((1+1)^{1+1+11}))/((1+1+1))) - 11 \\
&:= 2 \times (2 \times (((22+2+2)^2) + 2) + 2) \\
&:= 3 + (((33/3+3)^3) - 3^3) \\
&:= (44 - 4) \times (4 \times 4 \times 4 + 4) \\
&:= 5 \times 555 - 55 \\
&:= 6 + (((6+6)/6)^{66/6}) + 666 \\
&:= ((7 \times 777) + 7/7)/(7+7)/7 \\
&:= 8 \times (((8 \times 88 - 8)/(8+8)/8) - 8) \\
&:= ((9 - 9/9) + 9) \times (9 \times (9+9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2721 &:= 1 + (((1 + ((1+1)^{1+1+11}))/((1+1+1))) - 11) \\
&:= 2/2 + ((2 \times (22+2+2))^2 + 2^{2+2}) \\
&:= (3^3 \times (3 \times 33 + 3)) - 33 \\
&:= 4/4 + ((44 - 4) \times (4 \times 4 \times 4 + 4)) \\
&:= 5/5 + (5 \times 555 - 55) \\
&:= 6 + (((6 \times (6 \times (66+6))) + 666/6) + 6) + 6) \\
&:= ((7/7+7) \times (7 \times 7 \times 7 - ((7+7)/7))) - 7 \\
&:= ((8 \times 8 - 88/8)^{(8+8)/8}) - 88 \\
&:= ((9/9+9) \times (999/9+9 \times (9+9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2722 &:= (1+1+1+11)^{1+1+1} - 11 - 11 \\
&:= 222 + (2 \times (22+2+2))^2 \\
&:= 3/3 + ((3^3 \times (3 \times 33 + 3)) - 33) \\
&:= (4+4)/4 + ((44 - 4) \times (4 \times 4 \times 4 + 4)) \\
&:= (5+5)/5 + (5 \times 555 - 55) \\
&:= 6 + ((6/6+6) \times (6 \times 66 - ((6+6)/6+6))) \\
&:= 7 \times 7 \times (7 \times 7+7) - (7/7+7+7+7) \\
&:= 8 + (((8 - 8/8+8) + 8) \times ((888 - 8)/8 + 8)) \\
&:= 9999/9 + ((9 \times (99+9 \times 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2723 &:= 11 + ((1 + 1) \times ((1 + 11) \times (1 + 1 + 111))) \\
&:= 22 + ((2 \times (22 + 2 + 2))^2 - (2/2 + 2)) \\
&:= 3 + (((33/3 + 3)^3) - 3^3) + 3 \\
&:= (((44 \times (4^4 - 4 - 4)) - 4)/4) - 4 \\
&:= (5 \times (555 - 5 - 5)) - (5 + 5)/5 \\
&:= (6/6 + 6) \times (6 \times 66 - (6/6 + 6)) \\
&:= 7 \times (((7 \times 777) + 7)/(7 + 7)) \\
&:= 8 + ((88/8 - 8) \times ((888 + 8/8 + 8) + 8)) \\
&:= 99 \times (9 + 9 + 9) + ((9 \times 99 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2724 &:= (1 + 11) \times (1 + ((1 + 1) \times (1 + 1 + 111))) \\
&:= 2 \times ((22 \times (2^{2+2+2} - 2)) - 2) \\
&:= 3 + ((3^3 \times (3 \times 33 + 3)) - 33) \\
&:= 4 + ((44 - 4) \times (4 \times 4 \times 4 + 4)) \\
&:= (5 \times (555 - 5 - 5)) - 5/5 \\
&:= (6 + 6) \times (6 \times 6 \times 6 + 66/6) \\
&:= 7/7 + (7 \times (((7 \times 777) + 7)/(7 + 7))) \\
&:= (((8 \times 8 \times 88) - 8)/((8 + 8)/8)) - 88 \\
&:= (9 \times ((9 + 9) \times (9 + 9) - 9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2725 &:= (111 - 1 - 1) \times (1 + ((1 + 1) \times (1 + 11))) \\
&:= 22 + ((2 \times (22 + 2 + 2))^2 - 2/2) \\
&:= (3 \times 3 + 3)^3 + (((3 \times 3 + 3/3)^3) - 3) \\
&:= (((44 \times (4^4 - 4 - 4)) + 4)/4) - 4 \\
&:= 5 \times (555 - 5 - 5) \\
&:= 6/6 + ((6 + 6) \times (6 \times 6 \times 6 + 66/6)) \\
&:= 7 \times 77 + (((7 + 7 + 7)/7)^7 - 7/7) \\
&:= 8 + (88/8 \times ((8 + 8) \times (8 + 8) - (8/8 + 8))) \\
&:= 9 + (((9/9 + 9 + 9) + 9) \times (99 - ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2726 &:= 1 + ((111 - 1 - 1) \times (1 + ((1 + 1) \times (1 + 11)))) \\
&:= 22 + (2 \times (22 + 2 + 2))^2 \\
&:= ((33/3 + 3)^3) - (3 \times (3 + 3)) \\
&:= ((44 \times (4^4 - 4 - 4)) - (4 + 4))/4 \\
&:= 5/5 + (5 \times (555 - 5 - 5)) \\
&:= (66/6 + 6 \times 6) \times (((6 + 6)/6)^6 - 6) \\
&:= 7 \times 77 + ((7 + 7 + 7)/7)^7 \\
&:= (88 \times ((8 + 8 + 8) + 8)) - ((8 + 8)/8 + 88) \\
&:= (9 + 9 + 9) \times ((9 + 9)/9 + 99) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2727 &:= (((1 + 1)^{1+1+11}) - 11)/(1 + 1 + 1) \\
&:= 22 + ((2 \times (22 + 2 + 2))^2 + 2/2) \\
&:= 3 \times ((33 \times 3^3) + (3 \times (3 + 3))) \\
&:= ((44 \times (4^4 - 4 - 4)) - 4)/4 \\
&:= (5 + 5)/5 + (5 \times (555 - 5 - 5)) \\
&:= 66 + ((66 \times (6 \times 6 + 6)) - 666/6) \\
&:= 7 + (((7 \times 777) + 7/7)/(7 + 7)/7) \\
&:= (88 \times ((8 + 8 + 8) + 8)) - (8/8 + 88) \\
&:= (9 + 9 + 9) \times ((9 + 9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2728 &:= (1 + 1) \times (11 \times (1 + (1 + (1 + 11^{1+1})))) \\
&:= 2 \times (22 \times (2^{2+2+2} - 2)) \\
&:= (3 - 3/3) \times ((33/3)^3 + 33) \\
&:= 44 \times (4^4 - 4 - 4)/4 \\
&:= 55/5 \times (((5 - (5 + 5)/5)^5) + 5) \\
&:= ((6 + 6)/6)^6 + ((6 + 6) \times (6 \times 6 \times 6 + 6)) \\
&:= (7/7 + 7) \times (7 \times 7 \times 7 - ((7 + 7)/7)) \\
&:= 88 \times (((8 - 8/8 + 8) + 8) + 8) \\
&:= 9/9 + (9 + 9 + 9) \times ((9 + 9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2729 &:= 1 + ((1 + 1) \times (11 \times (1 + (1 + (1 + 11^{1+1})))))) \\
&:= 2/2 + (2 \times (22 \times (2^{2+2+2} - 2))) \\
&:= 3 + (((33/3 + 3)^3) - (3 \times (3 + 3))) \\
&:= ((44 \times (4^4 - 4 - 4)) + 4)/4 \\
&:= 5 + ((5 \times (555 - 5 - 5)) - 5/5) \\
&:= ((6 - 6/6)^{6-6/6}) - 6 \times 66 \\
&:= 7 \times 7 \times (7 \times 7 + 7) - (7/7 + 7 + 7) \\
&:= 8/8 + (88 \times (((8 - 8/8 + 8) + 8) + 8)) \\
&:= 9 + (((9 - 9/9) + 9) \times (9 \times (9 + 9) - ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2730 &:= (1 + 1) \times (((1 + 1)^{1+11}) - 1)/(1 + 1 + 1) \\
&:= 2 + (2 \times (22 \times (2^{2+2+2} - 2))) \\
&:= 3 + ((3 + 3) \times 333 + 3^{3+3}) \\
&:= (4^4 + 4)/4 \times (44 - (4 + 4)/4) \\
&:= 5 + (5 \times (555 - 5 - 5)) \\
&:= (6/6 + 6) \times (6 \times 66 - 6) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - (7 + 7) \\
&:= (8 + 8)/8 + (88 \times (((8 - 8/8 + 8) + 8) + 8)) \\
&:= (9/9 + 9) \times (999/9 + 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2731 &:= (1 + ((1 + 1)^{1+1+11}))/ (1 + 1 + 1) \\
&:= ((2^{22/2+2}) + 2/2)/(2/2 + 2) \\
&:= 3 + (((3 \times 3 + 3/3)^3) + (3 \times 3 + 3)^3) \\
&:= 4 + (((44 \times (4^4 - 4 - 4)) - 4)/4) \\
&:= 5 + ((5 \times (555 - 5 - 5)) + 5/5) \\
&:= 6/6 + ((6/6 + 6) \times (6 \times 66 - 6)) \\
&:= 7/7 + (7 \times 7 \times (7 \times 7 + 7) - (7 + 7)) \\
&:= 8 \times 8 + ((88/8 - 8) \times (888 + 8/8)) \\
&:= 9999/9 + (9 \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2732 &:= 1 + ((1 + ((1 + 1)^{1+1+11}))/ (1 + 1 + 1)) \\
&:= 2 \times ((22 \times (2^{2+2+2} - 2)) + 2) \\
&:= ((33/3 + 3)^3) - (3 \times 3 + 3) \\
&:= 4 + (44 \times (4^4 - 4 - 4)/4) \\
&:= 5 + ((5 \times (555 - 5 - 5)) + ((5 + 5)/5)) \\
&:= (6 + 6)/6 + ((6/6 + 6) \times (6 \times 66 - 6)) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - (77 + 7)/7 \\
&:= (((8 \times 8 \times 88) + 8)/((8 + 8)/8)) - 88 \\
&:= ((9 + 9)/9) \times (9 \times (9 \times (9 + 9) - 9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2733 &:= (1 + 1 + 1 + 11)^{1+1+1} - 11 \\
&:= (2^{2+2} - 2)^{2/2+2} - 22/2 \\
&:= ((33/3 + 3)^3) - 33/3 \\
&:= 4 + (((44 \times (4^4 - 4 - 4)) + 4)/4) \\
&:= 5 + (55/5 \times (((5 - (5 + 5)/5)^5) + 5)) \\
&:= 666/6 + ((6 \times ((6 \times (66 + 6)) + 6)) - 6) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - 77/7 \\
&:= (8 \times ((8 + 8) \times (8 + 8) + 88)) - (88/8 + 8) \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9) - 9)) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2734 &:= 1 + ((1 + 1 + 1 + 11)^{1+1+1} - 11) \\
&:= 2 \times (((2 + 2 + 2)^2 + 2/2)^2) - 2) \\
&:= ((3 - 33)/3) + ((33/3 + 3)^3) \\
&:= 4 + ((4^4 + 4)/4 \times (44 - (4 + 4)/4)) \\
&:= (5 \times (5 + 5) \times 55) - (55/5 + 5) \\
&:= (66 \times (6 \times 6 + 6)) - ((6 + 6)/6 + 6 \times 6) \\
&:= ((7 - 77)/7) + 7 \times 7 \times (7 \times 7 + 7) \\
&:= 8 \times 8 \times 8 + (((8 + 8)/8) \times 8888/8) \\
&:= (9 + 9) \times (9 \times (9 + 9) - 9) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2735 &:= 1 + (1 + ((1 + 1 + 1 + 11)^{1+1+1} - 11)) \\
&:= ((22 + 2/2) \times ((22/2)^2 - 2)) - 2 \\
&:= ((33/3 + 3)^3) - 3 \times 3 \\
&:= (4 \times 4 \times 4 \times 44) - (4 - 4/4)^4 \\
&:= 5 + ((5 \times (555 - 5 - 5)) + 5) \\
&:= (66 \times (6 \times 6 + 6)) - (6 \times 6 + 6/6) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - ((7 + 7)/7 + 7) \\
&:= 8 + ((88 \times ((8 + 8 + 8) + 8)) - (8/8 + 88)) \\
&:= (9 + 9) \times (9 \times (9 + 9) - 9) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2736 &:= (1 + 1) \times ((1 + 11) \times (1 + 1 + 1 + 111)) \\
&:= 2 \times (2 \times 22^2 + (22 - 2)^2) \\
&:= (3^3 - 3) \times (333/3 + 3) \\
&:= 4 \times ((4 \times (4 \times 44 - 4)) - 4) \\
&:= 55/5 + (5 \times (555 - 5 - 5)) \\
&:= 6 \times ((6 \times 66 - 6) + 66) \\
&:= (7/7 + 7) \times (7 \times 7 \times 7 - 7/7) \\
&:= 8 + (88 \times (((8 - 8/8 + 8) + 8) + 8)) \\
&:= (9 + 9) \times (9 \times (9 + 9) - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2737 &:= (1 + (11 + 11)) \times (11^{1+1} - 1 - 1) \\
&:= (22 + 2/2) \times ((22/2)^2 - 2) \\
&:= ((3/3 + 3)^3) + (3 \times (33 \times 3^3)) \\
&:= 4/4 + (4 \times ((4 \times (4 \times 44 - 4)) - 4)) \\
&:= ((55 + 5)/5) + (5 \times (555 - 5 - 5)) \\
&:= 6/6 + (6 \times ((6 \times 66 - 6) + 66)) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - 7 \\
&:= ((8 - 8/8 + 8) + 8) \times (888/8 + 8) \\
&:= ((9 - 9/9) + 9) \times (9 \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2738 &:= (1+1) \times ((111/(1+1+1))^{1+1}) \\
&:= 2 \times (((2+2+2)^2 + 2/2)^2) \\
&:= ((33/3+3)^3) - 3 - 3 \\
&:= (4+4)/4 + (4 \times (4 \times 44 - 4) - 4) \\
&:= 5 \times 555 - (((5+5)/5)^5 + 5) \\
&:= (6+6)/6 + (6 \times ((6 \times 66 - 6) + 66)) \\
&:= 7/7 + 7 \times (7 \times (7 \times 7 + 7)) - 7 \\
&:= 8 + ((88 \times ((8-8/8+8) + 8) + 8)) + ((8+8)/8) \\
&:= 9/9 + (((9-9/9)+9) \times (9 \times (9+9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2739 &:= 1 + ((1+1) \times ((111/(1+1+1))^{1+1})) \\
&:= (((2 \times (2+2+2)^2 + 2)^2) + 2)/2 \\
&:= 33 \times ((3 \times 3^3 - 3/3) + 3) \\
&:= 44/4 \times ((4^4 - 44/4) + 4) \\
&:= (5 \times (5+5) \times 55) - 55/5 \\
&:= 666/6 + (6 \times ((6 \times (66+6)) + 6)) \\
&:= (7+7)/7 + 7 \times (7 \times (7 \times 7 + 7)) - 7 \\
&:= 88/8 \times (((8+8) \times (8+8) - 8) + 8/8) \\
&:= 9 + ((9/9+9) \times (999/9+9 \times (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2740 &:= (1+1) \times (1 + ((111/(1+1+1))^{1+1})) \\
&:= 2 + (2 \times (((2+2+2)^2 + 2/2)^2)) \\
&:= ((33/3+3)^3) - (3/3+3) \\
&:= 4 + (4 \times ((4 \times (4 \times 44 - 4) - 4)) \\
&:= (5+5) \times (5 \times 55 - 5/5) \\
&:= 6 + ((66 \times (6 \times 6 + 6)) - ((6+6)/6 + 6 \times 6)) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) - (77/7)) \\
&:= ((8 \times (8 \times 88 - 8)) - 88)/((8+8)/8) \\
&:= 9 + (9999/9 + (9 \times (99+9 \times 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2741 &:= (1+1+1+11)^{1+1+1} - 1 - 1 - 1 \\
&:= 2 + (((2 \times (2+2+2)^2 + 2)^2) + 2)/2 \\
&:= ((33/3+3)^3) - 3 \\
&:= (4 \times (4 \times (4 \times 44 - 4))) - 44/4 \\
&:= 5/5 + ((5+5) \times (5 \times 55 - 5/5)) \\
&:= 6 + ((66 \times (6 \times 6 + 6)) - (6 \times 6 + 6/6)) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - (7+7+7)/7 \\
&:= (8 \times ((8+8) \times (8+8) + 88)) - 88/8 \\
&:= (9+9) \times (9 \times (9+9) - 9) - ((99+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2742 &:= (1+1+1+11)^{1+1+1} - 1 - 1 \\
&:= (2^{2+2} - 2)^{2/2+2} - 2 \\
&:= 3/3 + (((33/3+3)^3) - 3) \\
&:= (4-44)/4 + (4 \times (4 \times (4 \times 44 - 4))) \\
&:= (5+5)/5 + ((5+5) \times (5 \times 55 - 5/5)) \\
&:= 6 + (6 \times ((6 \times 66 - 6) + 66)) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - (7+7)/7 \\
&:= (8-88)/8 + (8 \times ((8+8) \times (8+8) + 88)) \\
&:= (9+9) \times (9 \times (9+9) - 9) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2743 &:= (1+1+1+11)^{1+1+1} - 1 \\
&:= (2^{2+2} - 2)^{2/2+2} - 2/2 \\
&:= ((33/3+3)^3) - 3/3 \\
&:= 4 + (44/4 \times ((4^4 - 44/4) + 4)) \\
&:= 5 \times 555 - ((5+5)/5)^5 \\
&:= 6 + ((6 \times ((6 \times 66 - 6) + 66)) + 6/6) \\
&:= 7 \times 7 \times (7 \times 7 + 7) - 7/7 \\
&:= (8 \times ((8+8) \times (8+8) + 88)) - (8/8+8) \\
&:= (9+9) \times (9 \times (9+9) - 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2744 &:= (1 + (1 + 1 + 11))^{1+1+1} \\
&:= (2^{2+2} - 2)^{2/2+2} \\
&:= ((33/3+3)^3) \\
&:= ((44-4)/4 + 4)^{4-4/4} \\
&:= (5 \times (5+5) \times 55) - (5/5+5) \\
&:= ((6+6)/6 + 6 + 6)^{6 \times 6 / (6+6)} \\
&:= 7 \times 7 \times (7 \times 7 + 7) \\
&:= 8 \times ((8-8/8)^{88/8-8}) \\
&:= (99-9/9) \times ((9/9+9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2745 &:= 1 + (1+1+1+11)^{1+1+1} \\
&:= 2/2 + (2^{2+2} - 2)^{2/2+2} \\
&:= 3/3 + ((33/3+3)^3) \\
&:= (44+4/4) \times ((4^4+4)/4 - 4) \\
&:= (5 \times (5+5) \times 55) - 5 \\
&:= 6 + ((6 \times ((6 \times (66+6)) + 6)) + 666/6) \\
&:= 7/7 + 7 \times 7 \times (7 \times 7 + 7) \\
&:= 8/8 + (8 \times ((8-8/8)^{88/8-8})) \\
&:= (9+9) \times (9 \times (9+9) - 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2746 &:= 1 + (1 + (1 + 1 + 1 + 11))^{1+1+1} \\
&:= 2 + (2^{2+2} - 2)^{2/2+2} \\
&:= 3 + (((33/3+3)^3) - 3/3) \\
&:= (4 \times (4 \times (4 \times 44 - 4))) - ((4+4)/4 + 4) \\
&:= 5/5 + ((5 \times (5+5) \times 55) - 5) \\
&:= (((6+6)/6)^6 \times ((6 \times 6 + 6/6) + 6)) - 6 \\
&:= (7+7)/7 + 7 \times 7 \times (7 \times 7 + 7) \\
&:= (8+8)/8 + (8 \times ((8-8/8)^{88/8-8})) \\
&:= 9/9 + ((9+9) \times (9 \times (9+9) - 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2747 &:= 1 + (1 + (1 + (1 + 1 + 1 + 11))^{1+1+1}) \\
&:= 2 + ((2^{2+2} - 2)^{2/2+2} + 2/2) \\
&:= 3 + ((33/3+3)^3) \\
&:= (4 \times (4 \times (4 \times 44 - 4))) - (4/4 + 4) \\
&:= (5+5)/5 + ((5 \times (5+5) \times 55) - 5) \\
&:= (66+6/6) \times (6 \times 6 - 6/6 + 6) \\
&:= (7+7+7)/7 + 7 \times 7 \times (7 \times 7 + 7) \\
&:= 8 + (88/8 \times (((8+8) \times (8+8) - 8) + 8/8)) \\
&:= (9+9)/9 + ((9+9) \times (9 \times (9+9) - 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2748 &:= 1 + (1 + (1 + (1 + (1 + 1 + 1 + 11))^{1+1+1})) \\
&:= 2 + ((2^{2+2} - 2)^{2/2+2} + 2) \\
&:= 3 + (((33/3+3)^3) + 3/3) \\
&:= (4 \times (4 \times (4 \times 44 - 4))) - 4 \\
&:= (5 \times (5+5) \times 55) - (5+5)/5 \\
&:= 6 + ((6 \times ((6 \times 66 - 6) + 66)) + 6) \\
&:= 77/7 + 7 \times (7 \times (7 \times 7 + 7)) - 7 \\
&:= ((8 \times (8 \times 88 - (8+8))) - 8)/((8+8)/8) \\
&:= ((9+9+9)/9) + ((9+9) \times (9 \times (9+9) - 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2749 &:= ((111-1) \times (1 + ((1+1) \times (1+11)))) - 1 \\
&:= 2222 + (22+2/2)^2 - 2 \\
&:= 3 + (((33/3+3)^3) - 3/3) + 3) \\
&:= 4/4 + ((4 \times (4 \times (4 \times 44 - 4))) - 4) \\
&:= (5 \times (5+5) \times 55) - 5/5 \\
&:= (66 \times (6 \times 6 + 6)) - ((66/6+6) + 6) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) - ((7+7)/7)) \\
&:= 8 + ((8 \times ((8+8) \times (8+8) + 88)) - (88/8)) \\
&:= ((9-99)/(9+9)) + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2750 &:= (111-1) \times (1 + ((1+1) \times (1+11))) \\
&:= 22 \times (((22/2)^2 + 2) + 2) \\
&:= 3 + (((33/3+3)^3) + 3) \\
&:= 44/4 \times (4^4 - ((4+4)/4 + 4)) \\
&:= 5 \times (5+5) \times 55 \\
&:= 6 + (((6+6)/6 + 6 + 6)^{6 \times 6 / (6+6)}) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) - 7/7) \\
&:= (8/8 + 8 + 8 + 8) \times (888 - 8)/8 \\
&:= 99/9 \times ((9 \times (9+9+9) - ((9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2751 &:= 1 + ((111-1) \times (1 + ((1+1) \times (1+11)))) \\
&:= 2222 + ((22+2/2)^2) \\
&:= (3^3 \times (3 \times 33 + 3)) - 3 \\
&:= (4 \times (4 \times (4 \times 44 - 4))) - 4/4 \\
&:= 5/5 + (5 \times (5+5) \times 55) \\
&:= (6/6+6) \times (6 \times 66 - (6 \times 6 / (6+6))) \\
&:= 7 + 7 \times 7 \times (7 \times 7 + 7) \\
&:= (8 \times ((8+8) \times (8+8) + 88)) - 8/8 \\
&:= (9+9) \times (9 \times (9+9) - 9) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2752 &:= (1+1)^{11-1} + ((1+11)^{1+1+1}) \\
&:= 2 + (22 \times (((22/2)^2 + 2) + 2)) \\
&:= 3 \times 3 + (((33/3+3)^3) - 3/3) \\
&:= 4 \times (4 \times (4 \times 44 - 4)) \\
&:= (5+5)/5 + (5 \times (5+5) \times 55) \\
&:= ((6+6)/6)^6 \times ((6 \times 6 + 6/6) + 6) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) + 7/7) \\
&:= 8 \times ((8+8) \times (8+8) + 88) \\
&:= (9+9) \times (9 \times (9+9) - 9) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2753 &:= 1 + ((1+1)^{11-1} + ((1+11)^{1+1+1})) \\
&:= 2 + (((22+2/2)^2) + 2222) \\
&:= 3 \times 3 + ((33/3+3)^3) \\
&:= 4/4 + (4 \times (4 \times (4 \times 44 - 4))) \\
&:= 5 + ((5 \times (5+5) \times 55) - ((5+5)/5)) \\
&:= 6 + ((66+6/6) \times (6 \times 6 - 6/6+6)) \\
&:= 7 + (7 \times 7 \times (7 \times 7+7) + ((7+7)/7)) \\
&:= 8/8 + (8 \times ((8+8) \times (8+8) + 88)) \\
&:= (9+9) \times (9 \times (9+9) - 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2754 &:= 11 + ((1+1+1+11)^{1+1+1} - 1) \\
&:= 2 + ((22 \times (((22/2)^2 + 2) + 2)) + 2) \\
&:= 3^3 \times (3 \times 33 + 3) \\
&:= (4+4)/4 + (4 \times (4 \times (4 \times 44 - 4))) \\
&:= 5 + ((5 \times (5+5) \times 55) - 5/5) \\
&:= (66 \times (6 \times 6 + 6)) - 6 - 6 - 6 \\
&:= ((77-7)/7) + 7 \times 7 \times (7 \times 7 + 7) \\
&:= (8+8)/8 + (8 \times ((8+8) \times (8+8) + 88)) \\
&:= (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2755 &:= 11 + (1+1+1+11)^{1+1+1} \\
&:= 22/2 + (2^{2+2} - 2)^{2/2+2} \\
&:= 3/3 + (3^3 \times (3 \times 33 + 3)) \\
&:= 4 + ((4 \times (4 \times (4 \times 44 - 4))) - 4/4) \\
&:= 5 + (5 \times (5+5) \times 55) \\
&:= (66 \times (6 \times 6 + 6)) - (66/6+6) \\
&:= 77/7 + 7 \times 7 \times (7 \times 7 + 7) \\
&:= 88 + ((88/8 - 8) \times (888 + 8/8)) \\
&:= 9/9 + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2756 &:= 1 + (11 + (1+1+1+11)^{1+1+1}) \\
&:= 2 \times ((2 \times (22-2))^2 - 222) \\
&:= 3 + (((33/3+3)^3) + 3 \times 3) \\
&:= 4 + (4 \times (4 \times (4 \times 44 - 4))) \\
&:= 5 + ((5 \times (5+5) \times 55) + 5/5) \\
&:= (6-66)/6 + ((66 \times (6 \times 6 + 6)) - 6) \\
&:= (77+7)/7 + 7 \times 7 \times (7 \times 7 + 7) \\
&:= ((8 \times (8 \times 88 - (8+8))) + 8) / ((8+8)/8) \\
&:= (9+9)/9 + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2757 &:= 1 + (1 + (11 + (1+1+1+11)^{1+1+1})) \\
&:= 2 + ((2^{2+2} - 2)^{2/2+2} + 22/2) \\
&:= 3 + (3^3 \times (3 \times 33 + 3)) \\
&:= 4 + ((4 \times (4 \times (4 \times 44 - 4))) + 4/4) \\
&:= 5 + ((5 \times (5+5) \times 55) + ((5+5)/5)) \\
&:= 6 + ((6/6+6) \times (6 \times 66 - (6 \times 6/(6+6)))) \\
&:= 7 + ((7 \times 7 \times (7 \times 7+7) - 7/7) + 7) \\
&:= 8 + (((8 \times ((8+8) \times (8+8) + 88)) - (88/8)) + 8) \\
&:= ((9+9+9)/9) + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2758 &:= ((1 + (11 + 11)) \times (11^{1+1} - 1)) - 1 - 1 \\
&:= 2 + (2 \times ((2 \times (22-2))^2 - 222)) \\
&:= 3 + ((3^3 \times (3 \times 33 + 3)) + 3/3) \\
&:= 4 + ((4 \times (4 \times (4 \times 44 - 4))) + (4+4)/4) \\
&:= 5^5 + (((5-5^5)/(5+5)) - 55) \\
&:= (6/6+6) \times (6 \times 66 - ((6+6)/6)) \\
&:= 7 + 7 \times (7 \times (7 \times 7 + 7)) \\
&:= 8 + ((8/8+8+8+8) \times (888 - 8)/8) \\
&:= ((9+9)/9) \times (9 \times (9 \times (9+9) - 9) + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2759 &:= ((1 + (11 + 11)) \times (11^{1+1} - 1)) - 1 \\
&:= 22 + ((22+2/2) \times ((22/2)^2 - 2)) \\
&:= 3 + (((33/3+3)^3) + 3 \times 3 + 3) \\
&:= 4 + (((4 \times (4 \times (4 \times 44 - 4))) - 4/4) + 4) \\
&:= 5 \times 555 - (55/5+5) \\
&:= (66 \times (6 \times 6 + 6)) - (6/6+6+6) \\
&:= 7 + ((7 \times 7 \times (7 \times 7 + 7) + 7/7) + 7) \\
&:= 8 + ((8 \times ((8+8) \times (8+8) + 88)) - 8/8) \\
&:= 9 \times 9 \times 9 + (((9+9)/9)^{99/9}) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2760 &:= (1 + (11 + 11)) \times (11^{1+1} - 1) \\
&:= (2+2+2) \times (22^2 - (22+2)) \\
&:= 3 + ((3^3 \times (3 \times 33 + 3)) + 3) \\
&:= 4 + ((4 \times (4 \times (4 \times 44 - 4))) + 4) \\
&:= 5 + ((5 \times (5+5) \times 55) + 5) \\
&:= (66 \times (6 \times 6 + 6)) - 6 - 6 \\
&:= (7/7+7) \times (7 \times 7 \times 7 + ((7+7)/7)) \\
&:= 8 + (8 \times ((8+8) \times (8+8) + 88)) \\
&:= 9 + ((9+9) \times (9 \times (9+9) - 9) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2761 &:= 1 + ((1 + (11 + 11)) \times (11^{1+1} - 1)) \\
&:= 22/2 \times (((22^2 + 22)/2) - 2) \\
&:= (33 \times (3 \times 3^3 + 3)) - 33/3 \\
&:= 44/4 \times (4^4 - 4/4 - 4) \\
&:= 55/5 + (5 \times (5+5) \times 55) \\
&:= (66 \times (6 \times 6 + 6)) - 66/6 \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) + ((77-7)/7)) \\
&:= 8 + ((8 \times ((8+8) \times (8+8) + 88)) + 8/8) \\
&:= 9 + ((9+9) \times (9 \times (9+9) - 9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2762 &:= 1 + (1 + ((1 + (11 + 11)) \times (11^{1+1} - 1))) \\
&:= 2 + ((2+2+2) \times (22^2 - (22+2))) \\
&:= (3 \times (3+3)) + ((33/3+3)^3) \\
&:= ((44 \times (4^4 - 4/4 - 4)) + 4)/4 \\
&:= ((55+5)/5) + (5 \times (5+5) \times 55) \\
&:= (6-66)/6 + (66 \times (6 \times 6 + 6)) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) + (77/7)) \\
&:= 8 + ((8 \times ((8+8) \times (8+8) + 88)) + ((8+8)/8)) \\
&:= 9 + ((9+9) \times (9 \times (9+9) - 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2763 &:= 111 + ((1+11) \times ((1+1) \times 111 - 1)) \\
&:= 2 + (22/2 \times (((22^2 + 22)/2) - 2)) \\
&:= 3 \times (((33 \times 3^3) + 3^3) + 3) \\
&:= 44/4 + (4 \times (4 \times (4 \times 44 - 4))) \\
&:= 5 \times 555 - (55+5)/5 \\
&:= (((6-66) + 6)/6) + (66 \times (6 \times 6 + 6)) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) + (77+7)/7) \\
&:= 88/8 + (8 \times ((8+8) \times (8+8) + 88)) \\
&:= 9 + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2764 &:= (1+1)^{1+1+1} - 1 - 11^{1+1+1} \\
&:= 22 + ((2^{2+2} - 2)^{2/2+2} - 2) \\
&:= 3 + ((33 \times (3 \times 3^3 + 3)) - 33/3) \\
&:= (44 \times ((4^4 - 4)/4)) - 4 - 4 \\
&:= 5 \times 555 - 55/5 \\
&:= (66 \times (6 \times 6 + 6)) - ((6+6)/6+6) \\
&:= 7 + (((7 \times 7 \times (7 \times 7 + 7) - 7/7) + 7) + 7) \\
&:= ((8 \times 8 - 8/8) \times (88/((8+8)/8))) - 8 \\
&:= 9 + ((9+9) \times (9 \times (9+9) - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2765 &:= ((1+1)^{1+1+1}) - 11^{1+1+1} \\
&:= 22 + ((2^{2+2} - 2)^{2/2+2} - 2/2) \\
&:= 3 + (((33/3+3)^3) + (3 \times (3+3))) \\
&:= 4 + (44/4 \times (4^4 - 4/4 - 4)) \\
&:= 5 \times 555 - 5 - 5 \\
&:= (6/6+6) \times (6 \times 66 - 6/6) \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) + 7) + 7) \\
&:= (8 - 8/8) \times ((8 \times (8 \times 8 - (8+8))) + (88/8)) \\
&:= 99/9 + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2766 &:= 1 + (((1+1)^{1+1+1}) - 11^{1+1+1}) \\
&:= 22 + (2^{2+2} - 2)^{2/2+2} \\
&:= (33 \times (3 \times 3^3 + 3)) - 3 - 3 \\
&:= ((44 \times (4^4 - 4) - (4+4))/4) - 4 \\
&:= 5/5 + (5 \times 555 - (5+5)) \\
&:= (66 \times (6 \times 6 + 6)) - 6 \\
&:= 7 + (((7 \times 7 \times (7 \times 7 + 7) + 7/7) + 7) + 7) \\
&:= 8 + (((8/8+8+8+8) \times (888-8)/8) + 8) \\
&:= ((99+9)/9) + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2767 &:= 1 + (1 + (((1+1)^{1+1+1}) - 11^{1+1+1})) \\
&:= 22 + ((2^{2+2} - 2)^{2/2+2} + 2/2) \\
&:= 3^3 + (((33/3+3)^3) - (3/3+3)) \\
&:= ((44 \times (4^4 - 4) - 4)/4) - 4 \\
&:= (5+5)/5 + (5 \times 555 - (5+5)) \\
&:= 6/6 + ((66 \times (6 \times 6 + 6)) - 6) \\
&:= 7 + (((7/7+7) \times (7 \times 7 \times 7 + ((7+7)/7))) \\
&:= (888/8 \times (8/8+8+8+8)) - 8 \\
&:= ((99+9+9)/9) + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2768 &:= 1 + (1 + (1 + ((1 + 1)^{1+11}) - 11^{1+1+1})) \\
&:= 2 + ((2^{2+2} - 2)^{2/2+2} + 22) \\
&:= 3^3 + (((33/3 + 3)^3) - 3) \\
&:= 4 \times ((4 \times (4 \times 44 - 4)) + 4) \\
&:= 5 \times 555 - ((5 + 5)/5 + 5) \\
&:= (6 + 6)/6 + ((66 \times (6 \times 6 + 6)) - 6) \\
&:= (7/7 + 7) \times (((7 + 7 + 7)/7) + 7 \times 7 \times 7) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 + 8) + 88)) + 8) \\
&:= 9 \times 9 \times 9 + (((9 + 9)/9)^{99/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2769 &:= 111 + (1 + 1) \times (11^{1+1+1} - 1 - 1) \\
&:= (2/2 + 2) \times ((2 \times (22^2 - 22)) - 2/2) \\
&:= (33 \times (3 \times 3^3 + 3)) - 3 \\
&:= ((44 \times (4^4 - 4) + 4)/4) - 4 \\
&:= 5 \times 555 - (5/5 + 5) \\
&:= (66 \times (6 \times 6 + 6)) - 6 \times 6/(6 + 6) \\
&:= 7 + ((7 \times 7 \times (7 \times 7 + 7) + (77/7)) + 7) \\
&:= 8 + (((8 \times ((8 + 8) \times (8 + 8) + 88)) + 8/8) + 8) \\
&:= 99 + (((9 + 9 + 9)/9) \times (9 \times 99 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2770 &:= 111 + (((1 + 1) \times (11^{1+1+1} - 1)) - 1) \\
&:= (22 \times ((2 \times 2^{2+2+2}) - 2)) - 2 \\
&:= 3^3 + (((33/3 + 3)^3) - 3/3) \\
&:= (44 \times (4^4 - 4) - (4 + 4))/4 \\
&:= 5 \times 555 - 5 \\
&:= (66 \times (6 \times 6 + 6)) - (6 + 6)/6 \\
&:= 7 + ((7 \times 7 \times (7 \times 7 + 7) + (77 + 7)/7) + 7) \\
&:= 8 + (((8 \times ((8 + 8) \times (8 + 8) + 88)) + ((8 + 8)/8)) + 8) \\
&:= 99 + (99 \times (9 + 9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2771 &:= 111 + ((1 + 1) \times (11^{1+1+1} - 1)) \\
&:= (22 \times ((2 \times 2^{2+2+2}) - 2)) - 2/2 \\
&:= 3^3 + ((33/3 + 3)^3) \\
&:= (44 \times (4^4 - 4) - 4)/4 \\
&:= 5/5 + (5 \times 555 - 5) \\
&:= (66 \times (6 \times 6 + 6)) - 6/6 \\
&:= 77 + ((7 \times (7 \times (7 \times 7 + 7) - 7)) - 7/7) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 + 8) + 88)) + (88/8)) \\
&:= 99 + (99 \times (9 + 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2772 &:= 11 \times ((1 + 11) \times (11 + (11 - 1))) \\
&:= 22 \times ((2 \times 2^{2+2+2}) - 2) \\
&:= 33 \times (3 \times 3^3 + 3) \\
&:= 44 \times ((4^4 - 4)/4) \\
&:= (5 + 5)/5 + (5 \times 555 - 5) \\
&:= 66 \times (6 \times 6 + 6) \\
&:= 77 + (7 \times (7 \times (7 \times 7 + 7) - 7)) \\
&:= (8 \times 8 - 8/8) \times (88/((8 + 8)/8)) \\
&:= 99 + 99 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2773 &:= 111 + ((1 + 1) \times 11^{1+1+1}) \\
&:= 2/2 + (22 \times ((2 \times 2^{2+2+2}) - 2)) \\
&:= 3/3 + (33 \times (3 \times 3^3 + 3)) \\
&:= (44 \times (4^4 - 4) + 4)/4 \\
&:= 5 \times 555 - (5 + 5)/5 \\
&:= 6/6 + (66 \times (6 \times 6 + 6)) \\
&:= 7/7 + ((7 \times (7 \times (7 \times 7 + 7) - 7)) + 77) \\
&:= 8/8 + ((8 \times 8 - 8/8) \times (88/((8 + 8)/8))) \\
&:= 9/9 + (99 \times (9 + 9 + 9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2774 &:= (111 \times (1 + ((1 + 1) \times (1 + 11)))) - 1 \\
&:= 2 + (22 \times ((2 \times 2^{2+2+2}) - 2)) \\
&:= 3 + (((33/3 + 3)^3) + 3^3) \\
&:= ((44 \times (4^4 - 4) + 4) + 4)/4 \\
&:= 5 \times 555 - 5/5 \\
&:= (6 + 6)/6 + (66 \times (6 \times 6 + 6)) \\
&:= 7 + (((7/7 + 7) \times (7 \times 7 \times 7 + ((7 + 7)/7))) + 7) \\
&:= (888/8 \times (8/8 + 8 + 8 + 8)) - 8/8 \\
&:= 9 + ((9 + 9) \times (9 \times (9 + 9) - 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2775 &:= 111 \times (1 + ((1 + 1) \times (1 + 11))) \\
&:= 222/2 \times ((22 + 2/2) + 2) \\
&:= 3 + (33 \times (3 \times 3^3 + 3)) \\
&:= 4 + ((44 \times (4^4 - 4) - 4)/4) \\
&:= 5 \times 555 \\
&:= (6 \times 6/(6 + 6)) + (66 \times (6 \times 6 + 6)) \\
&:= 7 \times (77 + 7) + (((7 + 7 + 7)/7)^7) \\
&:= 888/8 \times (8/8 + 8 + 8 + 8) \\
&:= 999/9 + (99 \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2776 &:= 1 + (111 \times (1 + ((1 + 1) \times (1 + 11)))) \\
&:= 2 + ((22 \times ((2 \times 2^{2+2+2}) - 2)) + 2) \\
&:= 3 + ((33 \times (3 \times 3^3 + 3)) + 3/3) \\
&:= 4 + (44 \times ((4^4 - 4)/4)) \\
&:= 5/5 + 5 \times 555 \\
&:= 6 + ((66 \times (6 \times 6 + 6)) - ((6 + 6)/6)) \\
&:= (7/7 + 7) \times ((7 \times 7 \times 7 - 7) + (77/7)) \\
&:= 88 + ((8 + 8) \times (88 - 8 + 88)) \\
&:= 9 \times 9 \times 9 + (((9 + 9)/9)^{99/9}) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2777 &:= 1 + (1 + (111 \times (1 + ((1 + 1) \times (1 + 11)))))) \\
&:= 2 + (222/2 \times ((22 + 2/2) + 2)) \\
&:= 33 + ((33/3 + 3)^3) \\
&:= 4 + ((44 \times (4^4 - 4) + 4)/4) \\
&:= (5 + 5)/5 + 5 \times 555 \\
&:= 6 + ((66 \times (6 \times 6 + 6)) - 6/6) \\
&:= 77 + ((7 - ((7 + 7)/7)) \times (7 \times 77 + 7/7)) \\
&:= 8/8 + (((8 + 8) \times (88 - 8 + 88)) + 88) \\
&:= 9 \times 9 \times 9 + (((9 + 9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2778 &:= (1 + 11111)/(1 + 1 + 1 + 1) \\
&:= (2/2 + 2) \times ((2 \times (22^2 - 22)) + 2) \\
&:= 3 + ((33 \times (3 \times 3^3 + 3)) + 3) \\
&:= 4 + (((44 \times (4^4 - 4) + 4) + 4)/4) \\
&:= 5 + (5 \times 555 - ((5 + 5)/5)) \\
&:= 6 + (66 \times (6 \times 6 + 6)) \\
&:= (7 - 7/7) \times ((77 \times (7 - 7/7)) + 7/7) \\
&:= ((8 + 8)/8) \times (88 \times (8 + 8) - (88/8 + 8)) \\
&:= 9/9 + (((9 + 9)/9)^{99/9}) + 9 \times 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2779 &:= 1 + ((1 + 11111)/(1 + 1 + 1 + 1)) \\
&:= ((22 + 2/2) \times (22/2)^2) - 2 - 2 \\
&:= 3 + (((33 \times (3 \times 3^3 + 3)) + 3/3) + 3) \\
&:= 4 + (((44 \times (4^4 - 4) - 4)/4) + 4) \\
&:= 5 + (5 \times 555 - 5/5) \\
&:= 6 + ((66 \times (6 \times 6 + 6)) + 6/6) \\
&:= 7 \times (7 \times (7 \times 7 + 7) + 7) - 7 - 7 \\
&:= (((8 \times (8 \times 88 - 8)) - 8)/((8 + 8)/8)) - 8/8 \\
&:= 999 + ((9 + 9) \times 99 - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2780 &:= 1 + (1 + ((1 + 11111)/(1 + 1 + 1 + 1))) \\
&:= 2 \times ((2 \times (222 + 22^2)) - 22) \\
&:= 3 + (((33/3 + 3)^3) + 33) \\
&:= 4 + ((44 \times ((4^4 - 4)/4) + 4) \\
&:= 5 + 5 \times 555 \\
&:= 6 + ((66 \times (6 \times 6 + 6)) + ((6 + 6)/6)) \\
&:= 7/7 + (7 \times (7 \times (7 \times 7 + 7) + 7) - (7 + 7)) \\
&:= ((8 \times (8 \times 88 - 8)) - 8)/((8 + 8)/8) \\
&:= 999 + ((9 + 9) \times 99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2781 &:= (11 \times (11 \times (1 + (11 + 11)))) - 1 - 1 \\
&:= ((22 + 2/2) \times (22/2)^2) - 2 \\
&:= 3 \times (((33 \times 3^3) + 33) + 3) \\
&:= 4 + (((44 \times (4^4 - 4) + 4)/4) + 4) \\
&:= 5 + (5 \times 555 + 5/5) \\
&:= 6 + ((66 \times (6 \times 6 + 6)) + (6 \times 6/(6 + 6))) \\
&:= 7 \times (7 \times (7 \times 7 + 7) + 7) - (77 + 7)/7 \\
&:= (88/8 + 8 + 8) \times (888/8 - 8) \\
&:= 999 + (9 + 9) \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2782 &:= (11 \times (11 \times (1 + (11 + 11)))) - 1 \\
&:= 2 \times (((2 + 2 + 2)^2 + 2/2)^2) + 22 \\
&:= 3^3 + ((3^3 \times (3 \times 33 + 3)) + 3/3) \\
&:= 4 + (((44 \times (4^4 - 4) + 4) + 4)/4) + 4 \\
&:= 5 + (5 \times 555 + ((5 + 5)/5)) \\
&:= ((66 - 6)/6) + (66 \times (6 \times 6 + 6)) \\
&:= 7 \times (7 \times (7 \times 7 + 7) + 7) - 77/7 \\
&:= ((8 + 8)/8) \times (88 \times (8 + 8) - (8/8 + 8 + 8)) \\
&:= 9/9 + ((9 + 9) \times 99 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2783 &:= 11 \times (11 \times (1 + (11 + 11))) \\
&:= (22 + 2/2) \times (22/2)^2 \\
&:= 3 + (((33/3 + 3)^3) + 33) + 3 \\
&:= 44/4 \times ((4/4 - 4) + 4^4) \\
&:= 5 + ((5 \times 555 - ((5 + 5)/5)) + 5) \\
&:= 66/6 + (66 \times (6 \times 6 + 6)) \\
&:= ((7 - 77)/7) + 7 \times (7 \times (7 \times 7 + 7) + 7) \\
&:= 8 + (888/8 \times (8/8 + 8 + 8)) \\
&:= 99 + (99 \times (9 + 9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2784 &:= 1 + (11 \times (11 \times (1 + (11 + 11)))) \\
&:= (2 + 2 + 2) \times ((22^2 - 22) + 2) \\
&:= (3/3 + 3) \times (3^{3+3} - 33) \\
&:= 4 \times ((444 - 4) + 4^4) \\
&:= 5 + ((5 \times 555 - 5/5) + 5) \\
&:= 6 + ((66 \times (6 \times 6 + 6)) + 6) \\
&:= (7/7 + 7) \times ((7 \times 7 \times 7 - ((7 + 7)/7)) + 7) \\
&:= 8 \times ((8 \times 88 - 8)/((8 + 8)/8)) \\
&:= 999/9 + 99 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2785 &:= 1 + (1 + (11 \times (11 \times (1 + (11 + 11)))))) \\
&:= 2 + ((22 + 2/2) \times (22/2)^2) \\
&:= 3/3 + ((3/3 + 3) \times (3^{3+3} - 33)) \\
&:= 4/4 + (4 \times ((444 - 4) + 4^4)) \\
&:= 5 + (5 \times 555 + 5) \\
&:= 6 + (((66 \times (6 \times 6 + 6)) + 6/6) + 6) \\
&:= 7 \times (7 \times (7 \times 7 + 7) + 7) - (7/7 + 7) \\
&:= 8/8 + (8 \times ((8 \times 88 - 8)/((8 + 8)/8))) \\
&:= 99 \times (9 + 9 + 9) + ((999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2786 &:= 11 + (111 \times (1 + ((1 + 1) \times (1 + 11)))) \\
&:= 22^2 + (((2 \times (22 + 2))^2) - 2) \\
&:= 3 \times 3 + (((33/3 + 3)^3) + 33) \\
&:= 4 \times 4 + ((44 \times (4^4 - 4) - (4 + 4))/4) \\
&:= 55/5 + 5 \times 555 \\
&:= (6/6 + 6) \times (((6 + 6)/6) + 6 \times 66) \\
&:= 7 \times (7 \times (7 \times 7 + 7) + 7) - 7 \\
&:= (8 + 8)/8 + (8 \times ((8 \times 88 - 8)/((8 + 8)/8))) \\
&:= 9 + (((9 + 9)/9)^{99/9}) + 9 \times 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2787 &:= 1 + (11 + (111 \times (1 + ((1 + 1) \times (1 + 11)))))) \\
&:= 2 + (((22 + 2/2) \times (22/2)^2) + 2) \\
&:= 33 + (3^3 \times (3 \times 33 + 3)) \\
&:= 4 + (44/4 \times ((4/4 - 4) + 4^4)) \\
&:= 5 \times 555 + (55 + 5)/5 \\
&:= 6 + (((66 \times (6 \times 6 + 6)) + (6 \times 6/(6 + 6))) + 6) \\
&:= 7/7 + (7 \times (7 \times (7 \times 7 + 7) + 7) - 7) \\
&:= (((8 \times (8 \times 88 - 8)) + 8)/((8 + 8)/8)) - 8/8 \\
&:= 9 \times (9 + 9) \times (9 + 9) - ((999/9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2788 &:= 1 + (1 + (11 + (111 \times (1 + ((1 + 1) \times (1 + 11)))))) \\
&:= 22^2 + ((2 \times (22 + 2))^2) \\
&:= (3/3 + 33) \times (3 \times 3^3 + 3/3) \\
&:= 4 + (4 \times ((444 - 4) + 4^4)) \\
&:= 5^5 + (((5 - 5^5)/(5 + 5)) - 5 \times 5) \\
&:= 6 + ((66 \times (6 \times 6 + 6)) + ((66 - 6)/6)) \\
&:= (7 + 7)/7 + (7 \times (7 \times (7 \times 7 + 7) + 7) - 7) \\
&:= ((8 \times (8 \times 88 - 8)) + 8)/((8 + 8)/8) \\
&:= ((9 - 9/9) + 9) \times (((9 + 9)/9) + 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2789 &:= 11 + ((1 + 11111)/(1 + 1 + 1 + 1)) \\
&:= 2/2 + (((2 \times (22 + 2))^2) + 22^2) \\
&:= 3 + (((33/3 + 3)^3) + 33) + 3 \times 3 \\
&:= 4 \times 4 + ((44 \times (4^4 - 4) + 4)/4) \\
&:= (5 \times (555 + 5)) - 55/5 \\
&:= 6 + ((66 \times (6 \times 6 + 6)) + (66/6)) \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) + 7) - (77/7)) \\
&:= 8 + ((88/8 + 8 + 8) \times (888/8 - 8)) \\
&:= 9 + (((9 + 9) \times 99 - 9/9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2790 &:= 1 + (11 + ((1 + 11111)/(1 + 1 + 1 + 1))) \\
&:= 2 + (((2 \times (22 + 2))^2) + 22^2) \\
&:= (3^3 + 3) \times ((3 \times (3^3 + 3)) + 3) \\
&:= (44 + 4/4) \times (4^4 - 4 - 4)/4 \\
&:= 5 + ((5 \times 555 + 5) + 5) \\
&:= 6 + (((66 \times (6 \times 6 + 6)) + 6) + 6) \\
&:= (77/7 + 7) \times (7/7 + 77 + 77) \\
&:= (8 \times 8 - ((8 + 8)/8)) \times (8 \times 8 - (88/8 + 8)) \\
&:= 9 + ((9 + 9) \times 99 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2791 &:= (11 \times (1 + (11 \times (1 + (11 + 11)))) - 1 - 1 - 1) \\
&:= (((22 \times (2^{2 \times (2+2)} - 2)) - 2)/2) - 2 \\
&:= 3 + ((3/3 + 33) \times (3 \times 3^3 + 3/3)) \\
&:= ((44 - 4/4) \times (4^4 + 4)/4) - 4 \\
&:= 5 + (5 \times 555 + (55/5)) \\
&:= 6 + (((66 \times (6 \times 6 + 6)) + 6/6) + 6) + 6 \\
&:= 7 \times (7 \times (7 \times 7 + 7) + 7) - (7 + 7)/7 \\
&:= 8 + ((888/8 \times (8/8 + 8 + 8)) + 8) \\
&:= 9 + (((9 + 9) \times 99 + 999) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2792 &:= (11 \times (1 + (11 \times (1 + (11 + 11)))) - 1 - 1) \\
&:= 2 \times (2 \times (((22 + 2 + 2)^2) + 22)) \\
&:= 3 \times 3^3 + (((33/3 + 3)^3) - 33) \\
&:= (4 \times (444 + 4^4)) - 4 - 4 \\
&:= 5 + (5 \times 555 + ((55 + 5)/5)) \\
&:= 6 + ((6/6 + 6) \times (((6 + 6)/6) + 6 \times 66)) \\
&:= 7 \times (7 \times (7 \times 7 + 7) + 7) - 7/7 \\
&:= 8 + (8 \times ((8 \times 88 - 8)/((8 + 8)/8))) \\
&:= 99/9 + ((9 + 9) \times 99 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2793 &:= (11 + (11 - 1)) \times (1 + (11 \times (1 + 11))) \\
&:= ((22 \times (2^{2 \times (2+2)} - 2)) - 2)/2 \\
&:= 3 + ((3^3 + 3) \times ((3 \times (3^3 + 3)) + 3)) \\
&:= 4 + (((44 \times (4^4 - 4) + 4)/4) + 4 \times 4) \\
&:= (5 \times (555 + 5)) - ((5 + 5)/5 + 5) \\
&:= (6/6 + 6) \times ((6 \times 6/(6 + 6)) + 6 \times 66) \\
&:= 7 \times (7 \times (7 \times 7 + 7) + 7) \\
&:= ((8 \times 8 - 88/8)^{(8+8)/8}) - 8 - 8 \\
&:= 9 + (99 \times (9 + 9 + 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2794 &:= 11 \times (1 + (11 \times (1 + (11 + 11)))) \\
&:= 22 \times ((2^{2 \times (2+2)} - 2)/2) \\
&:= 33/3 \times ((3^{3+3} + 33)/3) \\
&:= 44/4 \times (4^4 - (4 + 4)/4) \\
&:= (5 \times (555 + 5)) - (5/5 + 5) \\
&:= 66/6 \times (6 \times (6 \times 6 + 6) + ((6 + 6)/6)) \\
&:= 7/7 + 7 \times (7 \times (7 \times 7 + 7) + 7) \\
&:= ((8 + 8)/8) \times (88 \times (8 + 8) - (88/8)) \\
&:= 99/9 \times (9 \times (9 + 9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2795 &:= 1 + (11 \times (1 + (11 \times (1 + (11 + 11)))))) \\
&:= ((22 \times (2^{2 \times (2+2)} - 2)) + 2)/2 \\
&:= 3^3 + (((33/3 + 3)^3) - 3) + 3^3 \\
&:= (44 - 4/4) \times (4^4 + 4)/4 \\
&:= (5 \times (555 + 5)) - 5 \\
&:= (6/6 + 6 + 6) \times (6 \times 6 \times 6 - 6/6) \\
&:= (7 + 7)/7 + 7 \times (7 \times (7 \times 7 + 7) + 7) \\
&:= 88/8 + (8 \times ((8 \times 88 - 8)/((8 + 8)/8))) \\
&:= 9 + (((9 + 9)/9)^{99/9}) + 9 \times 9 \times 9 + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2796 &:= (1 + 11) \times (11 + (1 + 1) \times 111) \\
&:= 2 + (22 \times ((2^{2 \times (2+2)} - 2)/2)) \\
&:= 3^3 + ((33 \times (3 \times 3^3 + 3)) - 3) \\
&:= (4 \times (444 + 4^4)) - 4 \\
&:= 5/5 + ((5 \times (555 + 5)) - 5) \\
&:= (6 \times (6 \times (66 + 6 + 6))) - 6 - 6 \\
&:= (7 + 7 + 7)/7 + 7 \times (7 \times (7 \times 7 + 7) + 7) \\
&:= 8 + (((8 \times (8 \times 88 - 8)) + 8)/((8 + 8)/8)) \\
&:= 9 \times (9 + 9) \times (9 + 9) - (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2797 &:= 1 + ((1 + 11) \times (11 + (1 + 1) \times 111)) \\
&:= 2 + (((22 \times (2^{2 \times (2+2)} - 2)) + 2)/2) \\
&:= 3 + (33/3 \times ((3^{3+3} + 33)/3)) \\
&:= 4/4 + ((4 \times (444 + 4^4)) - 4) \\
&:= (5 + 5)/5 + ((5 \times (555 + 5)) - 5) \\
&:= (6 \times (6 \times (66 + 6 + 6))) - 66/6 \\
&:= 77/7 + (7 \times (7 \times (7 \times 7 + 7) + 7) - 7) \\
&:= (88 \times ((8 + 8 + 8) + 8)) - (88/8 + 8) \\
&:= 9 + (((9 - 9/9) + 9) \times (((9 + 9)/9) + 9 \times (9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2798 &:= 1 + (1 + ((1 + 11) \times (11 + (1 + 1) \times 111))) \\
&:= 2222 + ((22 + 2)^2) \\
&:= 3^3 + (((33/3 + 3)^3) + 3^3) \\
&:= 4 + (44/4 \times (4^4 - (4 + 4)/4)) \\
&:= (5 \times (555 + 5)) - (5 + 5)/5 \\
&:= (6 - 66)/6 + (6 \times (6 \times (66 + 6 + 6))) \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) + 7) - ((7 + 7)/7)) \\
&:= ((8 + 8)/8) \times (88 \times (8 + 8) - (8/8 + 8)) \\
&:= 9 + (((9 + 9) \times 99 - 9/9) + 999) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2799 &:= ((1 + 111) \times (1 + ((1 + 1) \times (1 + 11)))) - 1 \\
&:= 2/2 + (2222 + ((22 + 2)^2)) \\
&:= 3^3 + (33 \times (3 \times 3^3 + 3)) \\
&:= (4 \times (444 + 4^4)) - 4/4 \\
&:= (5 \times (555 + 5)) - 5/5 \\
&:= 6 + ((6/6 + 6) \times ((6 \times 6/(6 + 6)) + 6 \times 66)) \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) + 7) - 7/7) \\
&:= (88 \times ((8 + 8 + 8) + 8)) - (8/8 + 8 + 8) \\
&:= 9 + (((9 + 9) \times 99 + 999) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2800 &:= (1 + 111) \times (1 + ((1 + 1) \times (1 + 11))) \\
&:= 2 + (2222 + ((22 + 2)^2)) \\
&:= (3^3 + 3/3) \times (3 \times 33 + 3/3) \\
&:= 4 \times (444 + 4^4) \\
&:= 5 \times (555 + 5) \\
&:= (((6 + 6)/6)^{6+6}) - 6 \times 6 \times 6 \times 6 \\
&:= 7 + 7 \times (7 \times (7 \times 7 + 7) + 7) \\
&:= (8 + 8) \times (888/8 + 8 \times 8) \\
&:= (9/9 + 99) \times ((9/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2801 &:= 1 + ((1 + 111) \times (1 + ((1 + 1) \times (1 + 11)))) \\
&:= (((22 - 2)^2 \times (2^{2+2} - 2)) + 2)/2 \\
&:= 3 + (((33/3 + 3)^3) + 3^3) + 3^3 \\
&:= 4/4 + (4 \times (444 + 4^4)) \\
&:= 5/5 + (5 \times (555 + 5)) \\
&:= (6 \times (6 \times (66 + 6 + 6))) - 6/6 - 6 \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) + 7) + 7/7) \\
&:= ((8 \times 8 - 88/8)^{(8+8)/8}) - 8 \\
&:= 9 + (((9 + 9) \times 99 + 999) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2802 &:= 1 + (1 + ((1 + 111) \times (1 + ((1 + 1) \times (1 + 11)))))) \\
&:= 2 + (2222 + ((22 + 2)^2)) + 2 \\
&:= 3 + ((33 \times (3 \times 3^3 + 3)) + 3^3) \\
&:= (4 + 4)/4 + (4 \times (444 + 4^4)) \\
&:= (5 + 5)/5 + (5 \times (555 + 5)) \\
&:= (6 \times (6 \times (66 + 6 + 6))) - 6 \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) + 7) + ((7 + 7)/7)) \\
&:= ((8 + 8)/8) \times ((88 \times (8 + 8) - 8) + 8/8) \\
&:= 9 + ((99 \times (9 + 9 + 9) + 999/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2803 &:= (11 \times (111 + (1 + 11)^{1+1})) - 1 - 1 \\
&:= ((22/2 + 2 \times 22)^2) - 222 \\
&:= 3 + ((3^3 + 3/3) \times (3 \times 33 + 3/3)) \\
&:= 4 + ((4 \times (444 + 4^4)) - 4/4) \\
&:= 5 + ((5 \times (555 + 5)) - ((5 + 5)/5)) \\
&:= 6/6 + ((6 \times (6 \times (66 + 6 + 6))) - 6) \\
&:= 77 + (((7 + 7 + 7)/7)^7 + 7 \times 77) \\
&:= (88 \times ((8 + 8 + 8) + 8)) - (88 + 8 + 8)/8 \\
&:= 9 + ((99/9) \times (9 \times (9 + 9 + 9) + (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2804 &:= (11 \times (111 + (1 + 11)^{1+1})) - 1 \\
&:= 2 \times ((2 \times (2 \times ((22 \times 2^{2+2}) - 2))) + 2) \\
&:= 3^3 + (((33/3 + 3)^3) + 33) \\
&:= 4 + (4 \times (444 + 4^4)) \\
&:= 5 + ((5 \times (555 + 5)) - 5/5) \\
&:= (6 + 6)/6 + ((6 \times (6 \times (66 + 6 + 6))) - 6) \\
&:= 77/7 + 7 \times (7 \times (7 \times 7 + 7) + 7) \\
&:= (((8 \times 8 \times 88) - 8)/(8 + 8)/8) - 8 \\
&:= 9 \times (9 + 9) \times (9 + 9) - ((999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2805 &:= 11 \times (111 + (1 + 11)^{1+1}) \\
&:= 22/2 \times (2^{2 \times (2+2)} - 2/2) \\
&:= 33 + (33 \times (3 \times 3^3 + 3)) \\
&:= 44/4 \times (4^4 - 4/4) \\
&:= 5 + (5 \times (555 + 5)) \\
&:= (66 \times (6 \times 6 + 6)) + (66 \times 6/(6 + 6)) \\
&:= (77 + 7)/7 + 7 \times (7 \times (7 \times 7 + 7) + 7) \\
&:= 88/8 \times ((8 + 8) \times (8 + 8) - 8/8) \\
&:= 9 \times (9 + 9) \times (9 + 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2806 &:= (1 + (11 + 11)) \times (1 + 11^{1+1}) \\
&:= (22 + 2/2) \times ((22/2)^2 + 2/2) \\
&:= 3/3 + ((33 \times (3 \times 3^3 + 3)) + 33) \\
&:= 4/4 + (44/4 \times (4^4 - 4/4)) \\
&:= 5 + ((5 \times (555 + 5)) + 5/5) \\
&:= (6 \times (6 \times (66 + 6 + 6))) - (6 + 6)/6 \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) + 7) - 7/7) + 7) \\
&:= (8 - 88)/8 + (88 \times ((8 + 8 + 8) + 8)) \\
&:= ((9 + 9)/9) \times (((9 + 9)/9)^9) + 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2807 &:= 1 + ((1 + (11 + 11)) \times (1 + 11^{1+1})) \\
&:= ((2 \times (22 + 2 + 2) + 2/2)^2) - 2 \\
&:= ((33 + 3) \times (3 \times 3^3 - 3)) - 3/3 \\
&:= (4 \times 4 \times 4 \times 44) - (4/4 + 4 + 4) \\
&:= 5^5 - ((5^5 + 5)/(5 + 5) + 5) \\
&:= (6 \times (6 \times (66 + 6 + 6))) - 6/6 \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) + 7) + 7) \\
&:= (88 \times ((8 + 8 + 8) + 8)) - (8/8 + 8) \\
&:= 9 \times (9 + 9) \times (9 + 9) - (9/9 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2808 &:= (1 + 11) \times (1 + (11 + (1 + 1) \times 111)) \\
&:= 2 \times (2 \times ((2 \times (22 \times 2^{2+2})) - 2)) \\
&:= (33 + 3) \times (3 \times 3^3 - 3) \\
&:= (4 \times 4 \times 4 \times 44) - 4 - 4 \\
&:= 5^5 + (((5 - 5^5)/(5 + 5)) - 5) \\
&:= 6 \times (6 \times (66 + 6 + 6)) \\
&:= (7/7 + 7) \times ((7 \times 7 \times 7 + 7/7) + 7) \\
&:= (88 \times ((8 + 8 + 8) + 8)) - 8 \\
&:= (99 + 9) \times (((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2809 &:= ((111 - 1)/(1 + 1) - (1 + 1))^{1+1} \\
&:= (2 \times (22 + 2 + 2) + 2/2)^2 \\
&:= 3/3 + ((33 + 3) \times (3 \times 3^3 - 3)) \\
&:= 4 + (44/4 \times (4^4 - 4/4)) \\
&:= (55 - (5 + 5)/5)^{(5+5)/5} \\
&:= 6/6 + (6 \times (6 \times (66 + 6 + 6))) \\
&:= ((77/7 - 7) + 7 \times 7)^{(7+7)/7} \\
&:= (8 \times 8 - 88/8)^{(8+8)/8} \\
&:= 9 + ((9/9 + 99) \times ((9/9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2810 &:= 1 + (((111 - 1)/(1 + 1) - (1 + 1))^{1+1}) \\
&:= (2 \times (22 \times 2^{2+2+2} - 2)) - 2 \\
&:= 33 + (((33/3 + 3)^3) + 33) \\
&:= (4 \times 4 \times 4 \times 44) - ((4 + 4)/4 + 4) \\
&:= 5 + ((5 \times (555 + 5)) + 5) \\
&:= (6 + 6)/6 + (6 \times (6 \times (66 + 6 + 6))) \\
&:= 77 + (7 \times 7 \times (7 \times 7 + 7) - (77/7)) \\
&:= 8/8 + ((8 \times 8 - 88/8)^{(8+8)/8}) \\
&:= (9 + 9)/9 + ((99 + 9) \times (((9 - 9/9) + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2811 &:= (1 + 1 + 1) \times ((1 + 1)^{11} - 1111) \\
&:= 2 + ((2 \times (22 + 2 + 2) + 2/2)^2) \\
&:= 3 + ((33 + 3) \times (3 \times 3^3 - 3)) \\
&:= (4 \times 4 \times 4 \times 44) - (4/4 + 4) \\
&:= 55/5 + (5 \times (555 + 5)) \\
&:= (6 \times 6/(6 + 6)) + (6 \times (6 \times (66 + 6 + 6))) \\
&:= 7 + 7 \times (7 \times (7 \times 7 + 7) + 7) + 77/7 \\
&:= (((8 \times 8 \times 88) - 8)/(8 + 8)/8) - 8/8 \\
&:= 999/9 + ((9 + 9 + 9) \times (9/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2812 &:= 1 + ((1 + 1 + 1) \times ((1 + 1)^{11} - 1111)) \\
&:= 2 \times (22 \times 2^{2+2+2} - 2) \\
&:= 3 + (((33 + 3) \times (3 \times 3^3 - 3)) + 3/3) \\
&:= (4 \times 4 \times 4 \times 44) - 4 \\
&:= 5^5 - (5^5 + 5)/(5 + 5) \\
&:= 6 + ((6 \times (6 \times (66 + 6 + 6))) - ((6 + 6)/6)) \\
&:= (7/7 - 77) \times ((77 + 7)/7 - 7 \times 7) \\
&:= ((8 \times 8 \times 88) - 8)/(8 + 8)/8 \\
&:= (9 + 9) \times 99 + (9999/9 - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2813 &:= 11 \times (1+1)^{(1+1)^{1+1+1}} - 1 - 1 - 1 \\
&:= ((22 \times 2^{2 \times (2+2)}) - 2)/2 - 2 \\
&:= 3 + (((33/3+3)^3) + 33) + 33 \\
&:= 4/4 + ((4 \times 4 \times 4 \times 44) - 4) \\
&:= 5^5 + ((5 - 5^5)/(5+5)) \\
&:= 6 + ((6 \times (6 \times (66+6+6))) - 6/6) \\
&:= 77 + ((7/7+7) \times (7 \times 7 \times 7 - 7/7)) \\
&:= 8 + (88/8 \times ((8+8) \times (8+8) - 8/8)) \\
&:= (99/9+9+9) \times (99 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2814 &:= 11 \times (1+1)^{(1+1)^{1+1+1}} - 1 - 1 \\
&:= (2 \times 22 \times 2^{2+2+2}) - 2 \\
&:= 3 + (((33+3) \times (3 \times 3^3 - 3)) + 3) \\
&:= (4 \times 4 \times 4 \times 44) - (4+4)/4 \\
&:= 5 + ((55 - (5+5)/5)^{(5+5)/5}) \\
&:= 6 + (6 \times (6 \times (66+6+6))) \\
&:= 77 + 7 \times (7 \times (7 \times 7 + 7)) - 7 \\
&:= ((8+8)/8) \times (88 \times (8+8) - 8/8) \\
&:= 9 + (9 \times (9+9) \times (9+9) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2815 &:= 11 \times (1+1)^{(1+1)^{1+1+1}} - 1 \\
&:= ((22 \times 2^{2 \times (2+2)}) - 2)/2 \\
&:= ((33/3+3)^3) + (((3+3)^3 - 3)/3) \\
&:= (4 \times 4 \times 4 \times 44) - 4/4 \\
&:= 5 + (((5 \times (555+5)) + 5) + 5) \\
&:= 6 + ((6 \times (6 \times (66+6+6))) + 6/6) \\
&:= 7 + ((7/7+7) \times ((7 \times 7 \times 7 + 7/7) + 7)) \\
&:= (88 \times ((8+8+8) + 8)) - 8/8 \\
&:= 9 \times (9+9) \times (9+9) - ((9+9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2816 &:= 11 \times (1+1)^{(1+1)^{1+1+1}} \\
&:= 2 \times 22 \times 2^{2+2+2} \\
&:= 33/3 \times ((3/3+3)^{3/3+3}) \\
&:= 4 \times 4 \times 4 \times 44 \\
&:= 5 + ((5 \times (555+5)) + (55/5)) \\
&:= 6 + ((6 \times (6 \times (66+6+6))) + ((6+6)/6)) \\
&:= 77/7 \times (((7+7)/7)^{7/7+7}) \\
&:= 88 \times ((8+8+8) + 8) \\
&:= 99/9 \times (((9+9)/9)^{9-9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2817 &:= 11 \times (1+1)^{(1+1)^{1+1+1}} + 1 \\
&:= ((22 \times 2^{2 \times (2+2)}) + 2)/2 \\
&:= 3 \times ((3^3 \times (33+3)) - 33) \\
&:= 4/4 + (4 \times 4 \times 4 \times 44) \\
&:= 5 + (5^5 - (5^5+5)/(5+5)) \\
&:= 6 + ((6 \times (6 \times (66+6+6))) + (6 \times 6/(6+6))) \\
&:= 7 + ((7 \times 7 \times (7 \times 7 + 7) - (77/7)) + 77) \\
&:= 8/8 + (88 \times ((8+8+8) + 8)) \\
&:= 9 \times (9+9) \times (9+9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2818 &:= 11 \times (1+1)^{(1+1)^{1+1+1}} + 1 + 1 \\
&:= 2 + (2 \times 22 \times 2^{2+2+2}) \\
&:= 3/3 + (33 \times 33 + (3 \times 3 + 3)^3) \\
&:= (4+4)/4 + (4 \times 4 \times 4 \times 44) \\
&:= 5 + (((5 - 5^5)/(5+5)) + 5^5) \\
&:= ((66 - 6)/6) + (6 \times (6 \times (66+6+6))) \\
&:= 777 + (((7+7)/7)^{77/7} - 7) \\
&:= (8+8)/8 + (88 \times ((8+8+8) + 8)) \\
&:= 9/9 + (9 \times (9+9) \times (9+9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2819 &:= 11 \times (1+1)^{(1+1)^{1+1+1}} + 1 + 1 + 1 \\
&:= 2 + (((22 \times 2^{2 \times (2+2)}) + 2)/2) \\
&:= 3 + (((33/3+3)^3) + (3 \times (3^3 - 3))) \\
&:= 4 + ((4 \times 4 \times 4 \times 44) - 4/4) \\
&:= 55 + (5 \times 555 - (55/5)) \\
&:= 66/6 + (6 \times (6 \times (66+6+6))) \\
&:= 77 + (7 \times 7 \times (7 \times 7 + 7) - ((7+7)/7)) \\
&:= 88/8 + ((88 \times ((8+8+8) + 8)) - 8) \\
&:= (9+9)/9 + (9 \times (9+9) \times (9+9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2820 &:= (1+11) \times (11 + ((1+1) \times (1+11))) \\
&:= 2 \times (22 \times 2^{2+2+2} + 2) \\
&:= 3 + (33 \times 33 + (3 \times 3 + 3)^3) \\
&:= 4 + (4 \times 4 \times 4 \times 44) \\
&:= 5^5 - ((5 \times (55+5)) + 5) \\
&:= 6 + ((6 \times (6 \times (66+6+6))) + 6) \\
&:= 77 + (7 \times 7 \times (7 \times 7 + 7) - 7/7) \\
&:= ((8 \times 8 \times 88) + 8)/((8+8)/8) \\
&:= (9/9+9) \times ((999/9+9 \times (9+9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2821 &:= 1 + ((1+11) \times (11 + ((1+1) \times (1+11)))) \\
&:= 2 + (((22 \times 2^{2 \times (2+2)}) + 2)/2) + 2) \\
&:= 3333 - ((3 - 3/3)^{3 \times 3}) \\
&:= 4 + ((4 \times 4 \times 4 \times 44) + 4/4) \\
&:= 5^5 + (5/5 - ((5 \times (55+5)) + 5)) \\
&:= (6/6+6) \times ((6 \times 66+6/6) + 6) \\
&:= 77 + 7 \times 7 \times (7 \times 7 + 7) \\
&:= 8/8 + (((8 \times 8 \times 88) + 8)/((8+8)/8)) \\
&:= ((9/9+9 \times 9) + 9) \times (((99+99)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2822 &:= (1 + (11 \times (1 + (1+1)^{11-1-1}))) / (1+1) \\
&:= 2 + (2 \times (22 \times 2^{2+2+2} + 2)) \\
&:= 3 \times 3^3 + (((33/3+3)^3) - 3) \\
&:= 4 + ((4 \times 4 \times 4 \times 44) + (4+4)/4) \\
&:= 5 + ((5^5 - (5^5+5)/(5+5)) + 5) \\
&:= 6 + (((6 \times (6 \times (66+6+6))) + ((6+6)/6)) + 6) \\
&:= 7/7 + 7 \times 7 \times (7 \times 7 + 7) + 77 \\
&:= 8 + (((8+8)/8) \times (88 \times (8+8) - 8/8)) \\
&:= 9 + ((99/9+9+9) \times (99 - ((9+9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2823 &:= 1 + ((1 + (11 \times (1 + (1+1)^{11-1-1})))) / (1+1) \\
&:= (2 \times (2 \times (222 + 22^2))) - 2/2 \\
&:= (3 \times (((3+3)^3 - 3) + 3^{3+3})) - 3 \\
&:= (44/4 \times (4/4 + 4^4)) - 4 \\
&:= 5 + (((5 - 5^5)/(5+5)) + 5^5 + 5) \\
&:= 6 + (((6 \times (6 \times (66+6+6))) + (6 \times 6/(6+6))) + 6) \\
&:= 7 + (77/7 \times (((7+7)/7)^{7+7/7})) \\
&:= 8 + ((88 \times ((8+8+8) + 8)) - 8/8) \\
&:= (9 \times ((9+9) \times (9+9) - 9)) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2824 &:= ((1+1+111) \times (1 + ((1+1) \times (1+11)))) - 1 \\
&:= 2 \times (2 \times (222 + 22^2)) \\
&:= 3 + (3333 - ((3 - 3/3)^{3 \times 3})) \\
&:= 4 + ((4 \times 4 \times 4 \times 44) + 4) \\
&:= 5^5 - ((5 \times (55+5)) + 5/5) \\
&:= 6 + ((6 \times (6 \times (66+6+6))) + ((66-6)/6)) \\
&:= (7/7+7) \times (((77-7)/7) + 7 \times 7 \times 7) \\
&:= 8 + (88 \times ((8+8+8) + 8)) \\
&:= (9 \times ((9+9) \times (9+9) - 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2825 &:= (1+1+111) \times (1 + ((1+1) \times (1+11))) \\
&:= 2/2 + (2 \times (2 \times (222 + 22^2))) \\
&:= 3 \times 3^3 + ((33/3+3)^3) \\
&:= 4 + (((4 \times 4 \times 4 \times 44) + 4/4) + 4) \\
&:= 5 \times (555 + 5 + 5) \\
&:= 6 + ((6 \times (6 \times (66+6+6))) + (66/6)) \\
&:= 777 + (((7+7)/7)^{77/7}) \\
&:= 8 + ((88 \times ((8+8+8) + 8)) + 8/8) \\
&:= (9 \times ((9+9) \times (9+9) - 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2826 &:= 11 \times (1 + (1+1)^{(1+1)^{1+1+1}}) - 1 \\
&:= 2 + (2 \times (2 \times (222 + 22^2))) \\
&:= 3 \times (((3+3)^3 - 3) + 3^{3+3}) \\
&:= (44 - 4)/4 + (4 \times 4 \times 4 \times 44) \\
&:= 5^5 + (5/5 - (5 \times (55+5))) \\
&:= 666 + 6 \times 6 \times (66 - 6) \\
&:= (7 - 7/7) \times (((7+7)/7)^7 + 7 \times 7 \times 7) \\
&:= 8 + ((88 \times ((8+8+8) + 8)) + ((8+8)/8)) \\
&:= (9 \times ((9+9) \times (9+9) - 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2827 &:= 11 \times (1 + (1+1)^{(1+1)^{1+1+1}}) \\
&:= 22/2 \times (2^{2 \times (2+2)} + 2/2) \\
&:= 3/3 + (3 \times (((3+3)^3 - 3) + 3^{3+3})) \\
&:= 44/4 \times (4/4 + 4^4) \\
&:= 5^5 + ((5+5)/5 - (5 \times (55+5))) \\
&:= 6 + ((6/6+6) \times ((6 \times 66+6/6) + 6)) \\
&:= 7 + ((7 \times 7 \times (7 \times 7 + 7) - 7/7) + 77) \\
&:= 88/8 + (88 \times ((8+8+8) + 8)) \\
&:= 9/9 + ((9 \times ((9+9) \times (9+9) - 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2828 &:= 11 \times (1 + (1+1)^{(1+1)^{1+1+1}}) + 1 \\
&:= 2 \times ((2 \times (222 + 22^2)) + 2) \\
&:= 3 + (((33/3 + 3)^3) + 3 \times 3^3) \\
&:= 4 + 4 \times 4 \times 4 \times 44 + 4 + 4 \\
&:= 55 + (5 \times 555 - ((5+5)/5)) \\
&:= (6/6 + 6) \times (((6+6)/6) + 6 \times 66) + 6 \\
&:= 7 + 7 \times 7 \times (7 \times 7 + 7) + 77 \\
&:= 8 + (((8 \times 8 \times 88) + 8)/(8+8)/8) \\
&:= (9+9)/9 + (9 \times ((9+9) \times (9+9) - 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2829 &:= (1 + (11 + 11)) \times (1 + (1 + 11^{1+1})) \\
&:= (22 + 2/2) \times ((22/2)^2 + 2) \\
&:= 3 + (3 \times (((3+3)^3 - 3) + 3^{3+3})) \\
&:= 4/4 + 4 \times (4 \times 4 \times 44 + 4) - 4 \\
&:= 55 + (5 \times 555 - 5/5) \\
&:= ((66/6 + 6) + 6) \times ((666/6 + 6) + 6) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) + 77 + 7/7) \\
&:= 8 + (((8 \times 8 \times 88) + 8)/(8+8)/8) + 8/8 \\
&:= ((99+9)/9) + (9 \times (9+9) \times (9+9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2830 &:= 1 + ((1 + (11 + 11)) \times (1 + (1 + 11^{1+1}))) \\
&:= 2 + (2 \times ((2 \times (222 + 22^2)) + 2)) \\
&:= 3 + (3 \times (((3+3)^3 - 3) + 3^{3+3})) + 3/3 \\
&:= 4 \times (4 \times 4 \times 44 + 4) - (4+4)/4 \\
&:= 55 + 5 \times 555 \\
&:= ((6+6)/6)^6 + ((66 \times (6 \times 6 + 6)) - 6) \\
&:= 7 + ((77/7 \times (((7+7)/7)^{7+7/7})) + 7) \\
&:= ((8+8)/8) \times ((88 \times (8+8) - 8/8) + 8) \\
&:= ((9-99)/(9+9)) + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2831 &:= 1 + (1 + ((1 + (11 + 11)) \times (1 + (1 + 11^{1+1})))) \\
&:= 2 + ((22 + 2/2) \times ((22/2)^2 + 2)) \\
&:= 3 + (((33/3 + 3)^3) + 3 \times 3^3) + 3 \\
&:= 4 + 44/4 \times (4/4 + 4^4) \\
&:= 55 + (5 \times 555 + 5/5) \\
&:= 66 + ((6/6 + 6) \times (6 \times 66 - 6/6)) \\
&:= (7 \times (7 \times (7 \times 7 + 7) + 7 + 7)) - 77/7 \\
&:= 8 + (((88 \times ((8+8+8) + 8)) - 8/8) + 8) \\
&:= ((9-9 \times 9)/(9+9)) + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2832 &:= (1 + 1) \times ((1 + 11) \times (11^{1+1} - (1 + 1 + 1))) \\
&:= 2 \times (2 \times ((222 + 22^2) + 2)) \\
&:= (3 \times (3^{3+3} + (3+3)^3)) - 3 \\
&:= 4 \times (4 \times 4 \times 44 + 4) \\
&:= 55 + (5 \times 555 + ((5+5)/5)) \\
&:= 66 + ((66 \times (6 \times 6 + 6)) - 6) \\
&:= (7/7 + 7) \times (7 \times 7 \times 7 + (77/7)) \\
&:= 8 + ((88 \times ((8+8+8) + 8)) + 8) \\
&:= (9 \times ((9+9) \times (9+9) - 9)) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2833 &:= ((1 + 1) \times ((1 + 1 + 11) \times (111 - 1 - 1))) - 1 \\
&:= ((22 + 2/2)^2) + ((2 \times (22 + 2))^2) \\
&:= 3/3 + ((3 \times (3^{3+3} + (3+3)^3)) - 3) \\
&:= 4/4 + 4 \times (4 \times 4 \times 44 + 4) \\
&:= 5 + ((5 \times 555 - ((5+5)/5)) + 55) \\
&:= 66 + (((66 \times (6 \times 6 + 6)) - 6) + 6/6) \\
&:= 7 + ((7 - 7/7) \times (((7+7)/7)^7 + 7 \times 7 \times 7)) \\
&:= 8 + (((88 \times ((8+8+8) + 8)) + 8/8) + 8) \\
&:= (9 \times ((9+9) \times (9+9) - 9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2834 &:= (1 + 1) \times ((1 + 1 + 11) \times (111 - 1 - 1)) \\
&:= (22/2 + 2) \times (222 - (2 + 2)) \\
&:= (3 \times (3^3 + 3)) + ((33/3 + 3)^3) \\
&:= (4 + 4)/4 + 4 \times (4 \times 4 \times 44 + 4) \\
&:= 5 + ((5 \times 555 - 5/5) + 55) \\
&:= (6/6 + 6 + 6) \times (6 \times 6 \times 6 + (6+6)/6) \\
&:= 777 + 7 \times 7 \times (7 \times 7 - 7) - 7/7 \\
&:= ((8+8)/8) \times ((88 \times (8+8) + 8/8) + 8) \\
&:= (9 \times ((9+9) \times (9+9) - 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2835 &:= 1 + ((1 + 1) \times ((1 + 1 + 11) \times (111 - 1 - 1))) \\
&:= (((22 \times (2^{2 \times (2+2)} + 2)) - 2)/2) - 2 \\
&:= 3 \times (3^{3+3} + (3+3)^3) \\
&:= (44 + 4/4) \times (4^4 - 4)/4 \\
&:= 5 + (5 \times 555 + 55) \\
&:= 66 + ((66 \times (6 \times 6 + 6)) - (6 \times 6/(6+6))) \\
&:= 777 + 7 \times 7 \times (7 \times 7 - 7) \\
&:= 8 + ((88 \times ((8+8+8) + 8)) + (88/8)) \\
&:= 9 \times ((9+9) \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2836 &:= (1 + 1) \times (1 + ((1 + 1 + 11) \times (111 - 1 - 1))) \\
&:= (22 \times 222) - 2^{22/2} \\
&:= 3/3 + (3 \times (3^{3+3} + (3+3)^3)) \\
&:= 4 + 4 \times (4 \times 4 \times 44 + 4) \\
&:= 5 + ((5 \times 555 + 55) + 5/5) \\
&:= ((6+6)/6)^6 + (66 \times (6 \times 6 + 6)) \\
&:= 7/7 + (7 \times 7 \times (7 \times 7 - 7) + 777) \\
&:= 8 + (((88 \times (88 + 8)) + 8)/(8+8)/8) + 8 \\
&:= 9/9 + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2837 &:= 1111 + (((1 + 11)^{1+1+1}) - (1 + 1)) \\
&:= ((22 \times (2^{2 \times (2+2)} + 2)) - 2)/2 \\
&:= 3 + (((33/3 + 3)^3) + (3 \times (3^3 + 3))) \\
&:= 4 + 4 \times (4 \times 4 \times 44 + 4) + 4/4 \\
&:= 5 \times 5 + (5^5 - (5^5 + 5)/(5+5)) \\
&:= 66 + ((66 \times (6 \times 6 + 6)) - 6/6) \\
&:= 77 + ((7/7 + 7) \times (7 \times 7 \times 7 + ((7+7)/7))) \\
&:= (8 \times ((88 \times 88 + 8)/(8+8)/8)) - 88/8 \\
&:= (9+9)/9 + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2838 &:= 11 \times (1 + 1 + (1 + 1)^{(1+1)^{1+1+1}}) \\
&:= 22 \times ((2^{2 \times (2+2)} + 2)/2) \\
&:= 3 + (3 \times (3^{3+3} + (3+3)^3)) \\
&:= 44/4 \times ((4+4)/4 + 4^4) \\
&:= 5 \times 5 + (((5 - 5^5)/(5+5)) + 5^5) \\
&:= 66 + (66 \times (6 \times 6 + 6)) \\
&:= ((7/7 - 7) + 7 \times 7) \times (77 - 77/7) \\
&:= ((8+8)/8) \times (88 \times (8+8) + 88/8) \\
&:= ((9+9+9)/9) + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2839 &:= 1111 + ((1 + 11)^{1+1+1}) \\
&:= ((22 \times (2^{2 \times (2+2)} + 2)) + 2)/2 \\
&:= (3 \times 3 + 3)^3 + 3333/3 \\
&:= 4 + (44 + 4/4) \times (4^4 - 4)/4 \\
&:= 5^5 - (5 \times 55 + (55/5)) \\
&:= 66 + ((66 \times (6 \times 6 + 6)) + 6/6) \\
&:= 7 + ((7/7 + 7) \times (7 \times 7 \times 7 + (77/7))) \\
&:= 8 + (((88 \times ((8+8+8) + 8)) - 8/8) + 8) + 8 \\
&:= 9 \times 9 \times 9 + (9999/9 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2840 &:= 1 + (1111 + ((1 + 11)^{1+1+1})) \\
&:= 2 + (22 \times ((2^{2 \times (2+2)} + 2)/2)) \\
&:= 3 \times 33 + (((33/3 + 3)^3) - 3) \\
&:= 4 + 4 \times (4 \times 4 \times 44 + 4) + 4 \\
&:= 5^5 - ((5 \times 55 + 5) + 5) \\
&:= 66 + ((66 \times (6 \times 6 + 6)) + ((6+6)/6)) \\
&:= (7/7 + 7) \times ((77 + 7)/7 + 7 \times 7 \times 7) \\
&:= 8 + (((88 \times ((8+8+8) + 8)) + 8) + 8) \\
&:= 9 \times 99 + (((9+9)/9)^{99/9} - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2841 &:= 1 + (1 + (1111 + ((1 + 11)^{1+1+1}))) \\
&:= 2 + (((22 \times (2^{2 \times (2+2)} + 2)) + 2)/2) \\
&:= 3 + ((3 \times (3^{3+3} + (3+3)^3)) + 3) \\
&:= 444 + (((4 - 4/4) + 4)^4) - 4 \\
&:= 55 + (5 \times 555 + (55/5)) \\
&:= 66 + ((66 \times (6 \times 6 + 6)) + (6 \times 6/(6+6))) \\
&:= (7 \times (7 \times (7 \times 7 + 7) + 7 + 7)) - 7/7 \\
&:= 8 + (((88 \times ((8+8+8) + 8)) + 8/8) + 8) + 8 \\
&:= 9 + ((9 \times ((9+9) \times (9+9) - 9)) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2842 &:= 1 + (1 + (1 + (1111 + ((1 + 11)^{1+1+1})))) \\
&:= 2 + ((22 \times ((2^{2 \times (2+2)} + 2)/2)) + 2) \\
&:= 3 + (3333/3 + (3 \times 3 + 3)^3) \\
&:= 4 + (44/4 \times ((4+4)/4 + 4^4)) \\
&:= 5 + ((5 \times 5 - (5^5 + 5)/(5+5)) + 5^5) \\
&:= 6 + ((66 \times (6 \times 6 + 6)) + ((6+6)/6)^6) \\
&:= 7 \times (7 \times (7 \times 7 + 7) + 7 + 7) \\
&:= 8 + (((8+8)/8) \times ((88 \times (8+8) + 8/8) + 8)) \\
&:= (99 - 9/9) \times (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2843 &:= ((1+11) \times (11 + ((1+1) \times (1+1+111)))) - 1 \\
&:= 2 + (((22 \times (2^{2 \times (2+2)} + 2)) + 2)/2) + 2 \\
&:= 3 \times 33 + ((33/3 + 3)^3) \\
&:= 4 \times 4 + (44/4 \times (4/4 + 4^4)) \\
&:= 5^5 - ((5 \times 55 + ((5+5)/5)) + 5) \\
&:= (6 \times ((6 \times (66+6+6)) + 6)) - 6/6 \\
&:= 7/7 + (7 \times (7 \times (7 \times 7 + 7) + 7 + 7)) \\
&:= 8 + (((88 \times ((8+8+8) + 8)) + (88/8)) + 8) \\
&:= 9 + ((9 \times ((9+9) \times (9+9) - 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2844 &:= (1+11) \times (11 + ((1+1) \times (1+1+111))) \\
&:= 2 \times (((2+2+2)^2 + 2)^2 - 22) \\
&:= 3 \times ((3^{3+3} + (3+3)^3) + 3) \\
&:= 44 + (4 \times (444 + 4^4)) \\
&:= 5^5 - ((5 \times 55 + 5/5) + 5) \\
&:= 6 \times ((6 \times (66+6+6)) + 6) \\
&:= (7+7)/7 + (7 \times (7 \times (7 \times 7 + 7) + 7 + 7)) \\
&:= ((8 \times (8 \times 88 + 8)) - 8)/((8+8)/8) \\
&:= 9 + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2845 &:= 1 + ((1+11) \times (11 + ((1+1) \times (1+1+111)))) \\
&:= 2/2 + (2 \times (((2+2+2)^2 + 2)^2 - 22)) \\
&:= 3/3 + (3 \times ((3^{3+3} + (3+3)^3) + 3)) \\
&:= 444 + (((4-4/4) + 4)^4) \\
&:= 5^5 - (5 \times 55 + 5) \\
&:= 6/6 + (6 \times ((6 \times (66+6+6)) + 6)) \\
&:= 7 + (((7/7 - 7) + 7 \times 7) \times (77 - 77/7)) \\
&:= 8/8 + (((8 \times (8 \times 88 + 8)) - 8)/((8+8)/8)) \\
&:= 9 + ((9 \times ((9+9) \times (9+9) - 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2846 &:= ((1+1+11) \times (((1+1) \times (111-1)) - 1)) - 1 \\
&:= 2 + (2 \times (((2+2+2)^2 + 2)^2 - 22)) \\
&:= 3 + (((33/3 + 3)^3) + 3 \times 33) \\
&:= 4 + ((44/4 \times ((4+4)/4 + 4^4)) + 4) \\
&:= 5^5 + (5/5 - (5 \times 55 + 5)) \\
&:= (6+6)/6 + (6 \times ((6 \times (66+6+6)) + 6)) \\
&:= 7 + (((7/7 + 7) \times (7 \times 7 \times 7 + (77/7))) + 7) \\
&:= 8 + (((8+8)/8) \times (88 \times (8+8) + 88/8)) \\
&:= 99/9 + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2847 &:= (1+1+11) \times (((1+1) \times (111-1)) - 1) \\
&:= 2222 + ((2/2 + 2 + 2)^{2+2}) \\
&:= 3 + (3 \times ((3^{3+3} + (3+3)^3) + 3)) \\
&:= 4 \times (4 \times 4 \times 44 + 4 + 4) - 4/4 \\
&:= 5^5 + ((5+5)/5 - (5 \times 55 + 5)) \\
&:= 666 + ((66 \times 66 + 6)/(6+6)/6) \\
&:= 7 + ((7/7 + 7) \times ((77+7)/7 + 7 \times 7 \times 7)) \\
&:= (8 \times ((8 \times 88 + 8)/(8+8)/8)) - 8/8 \\
&:= ((99+9)/9) + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2848 &:= 1 + ((1+1+11) \times (((1+1) \times (111-1)) - 1)) \\
&:= 2^{2+2} \times ((2 \times 2 \times 2 \times 22) + 2) \\
&:= (33 - 3/3) \times ((3 \times (3^3 + 3)) - 3/3) \\
&:= 4 \times (4 \times 4 \times 44 + 4 + 4) \\
&:= 5^5 - (5 \times 55 + ((5+5)/5)) \\
&:= 6 + (((66 \times (6 \times 6 + 6)) + ((6+6)/6)^6) + 6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) + 7 + 7)) - 7/7) \\
&:= 8 \times ((8 \times 88 + 8)/((8+8)/8)) \\
&:= (9 - 9/9) \times (((9 \times 9 \times 9 \times 9) + 9)/(9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2849 &:= 11 \times (1+1+1+1+1) \times (1+1)^{1+1+1+1} \\
&:= 22/2 \times ((2^{2 \times (2+2)} + 2/2) + 2) \\
&:= 3 + (((33/3 + 3)^3) + 3 \times 33) + 3) \\
&:= 44/4 \times ((4^4 - 4/4) + 4) \\
&:= 5^5 - (5 \times 55 + 5/5) \\
&:= (6/6 + 6) \times (6 \times 66 + (66/6)) \\
&:= 7 + (7 \times (7 \times (7 \times 7 + 7) + 7 + 7)) \\
&:= 8/8 + (8 \times ((8 \times 88 + 8)/((8+8)/8))) \\
&:= 99/9 \times ((9 \times (9+9) - ((9+9)/9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2850 &:= 11 + (1111 + ((1+11)^{1+1+1})) \\
&:= 2 + 2 \times (22 - 2)^2 + 2^{22/2} \\
&:= (3^3 + 3) \times (3 \times 33 - (3/3 + 3)) \\
&:= 4/4 + (44/4 \times ((4^4 - 4/4) + 4)) \\
&:= 5^5 - 5 \times 55 \\
&:= 6 + (6 \times ((6 \times (66+6+6)) + 6)) \\
&:= (7/7 + 7 \times 7) \times ((7/7 + 7 \times 7) + 7) \\
&:= (8+8)/8 + (8 \times ((8 \times 88 + 8)/((8+8)/8))) \\
&:= (9/9 + 9 + 9) \times (9 \times (9+9) - ((99+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2851 &:= 1 + (11 + (1111 + ((1+11)^{1+1+1}))) \\
&:= 2 + (22/2 \times ((2^{2 \times (2+2)} + 2/2) + 2)) \\
&:= 3 + ((33 - 3/3) \times ((3 \times (3^3 + 3)) - 3/3)) \\
&:= 4 + 4 \times (4 \times 4 \times 44 + 4 + 4) - 4/4 \\
&:= 5^5 + (5/5 - 5 \times 55) \\
&:= 6 + ((6 \times ((6 \times (66+6+6)) + 6)) + 6/6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7 + 7) + 7 + 7)) + ((7+7)/7)) \\
&:= (((8 \times (8 \times 88 + 8)) + 8)/((8+8)/8)) - 8/8 \\
&:= 9 + ((99 - 9/9) \times (99/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2852 &:= (1 + (11 + 11)) \times (1 + (1 + (1 + 11^{1+1}))) \\
&:= ((2 \times 22) + 2) \times (2^{2+2+2} - 2) \\
&:= (3 \times (33 + 3)) + ((33/3 + 3)^3) \\
&:= 4 + 4 \times (4 \times 4 \times 44 + 4 + 4) \\
&:= 5^5 + ((5+5)/5 - 5 \times 55) \\
&:= 6 + ((6 \times ((6 \times (66+6+6)) + 6)) + ((6+6)/6)) \\
&:= 77 + (((7+7+7)/7)^7 + 7 \times (77 + 7)) \\
&:= ((8 \times (8 \times 88 + 8)) + 8)/((8+8)/8) \\
&:= 9 + (((9 \times ((9+9) \times (9+9) - 9)) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2853 &:= ((1+1)^{1+1+1}) - (11 \times (1+1+111)) \\
&:= 2/2 + (((2 \times 22) + 2) \times (2^{2+2+2} - 2)) \\
&:= 3 \times (((3^{3+3} + (3+3)^3) + 3) + 3) \\
&:= 4 + (44/4 \times ((4^4 - 4/4) + 4)) \\
&:= 5 + (5^5 - (5 \times 55 + ((5+5)/5))) \\
&:= 666 + ((6 \times 6)/(6+6))^{6/6+6} \\
&:= 77/7 + (7 \times (7 \times (7 \times 7 + 7) + 7 + 7)) \\
&:= 8/8 + (((8 \times (8 \times 88 + 8)) + 8)/((8+8)/8)) \\
&:= 9 + ((9 \times ((9+9) \times (9+9) - 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2854 &:= (1+1) \times (((1+11) \times (11^{1+1} - (1+1))) - 1) \\
&:= ((22+2) \times ((22/2)^2 - 2)) - 2 \\
&:= ((33/3 + 3)^3) + ((333 - 3)/3) \\
&:= 4 \times 4 + (44/4 \times ((4+4)/4 + 4^4)) \\
&:= 5 + (5^5 - (5 \times 55 + 5/5)) \\
&:= ((66 - 6)/6) + (6 \times ((6 \times (66+6+6)) + 6)) \\
&:= 7 \times 7 \times (7 \times 7 + 7) + (777 - 7)/7 \\
&:= ((8+8)/8) \times ((88 \times (8+8) + 88/8) + 8) \\
&:= 9 + (((9 \times ((9+9) \times (9+9) - 9)) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2855 &:= 111 + (1+1+1+11)^{1+1+1} \\
&:= ((22+2) \times ((22/2)^2 - 2)) - 2/2 \\
&:= 333/3 + ((33/3 + 3)^3) \\
&:= (44 \times (4^4 + 4)/4) - (4/4 + 4) \\
&:= 5 + (5^5 - 5 \times 55) \\
&:= 6 + ((6/6 + 6) \times (6 \times 66 + (66/6))) \\
&:= 777/7 + 7 \times 7 \times (7 \times 7 + 7) \\
&:= ((8+8+8) \times (888/8 + 8)) - 8/8 \\
&:= 9 + ((9 \times ((9+9) \times (9+9) - 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2856 &:= (1+1) \times ((1+11) \times (11^{1+1} - (1+1))) \\
&:= (22+2) \times ((22/2)^2 - 2) \\
&:= (3^3 + 3/3) \times (3 \times 33 + 3) \\
&:= (44 \times (4^4 + 4)/4) - 4 \\
&:= 5 + ((5/5 - 5 \times 55) + 5^5) \\
&:= (6/6 + 6) \times (6 \times 66 + 6 + 6) \\
&:= (7/7 + 7) \times (7 \times 7 \times 7 + 7 + 7) \\
&:= (8+8+8) \times (888/8 + 8) \\
&:= ((9/9 + 9 + 9) + 9) \times (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2857 &:= 1 + ((1+1) \times ((1+11) \times (11^{1+1} - (1+1)))) \\
&:= 2/2 + ((22+2) \times ((22/2)^2 - 2)) \\
&:= 3/3 + ((3^3 + 3/3) \times (3 \times 33 + 3)) \\
&:= 4/4 + ((44 \times (4^4 + 4)/4) - 4) \\
&:= 5 + (((5+5)/5 - 5 \times 55) + 5^5) \\
&:= 6/6 + ((6/6 + 6) \times (6 \times 66 + 6 + 6)) \\
&:= 7 + ((7/7 + 7 \times 7) \times ((7/7 + 7 \times 7) + 7)) \\
&:= 8/8 + ((8+8+8) \times (888/8 + 8)) \\
&:= ((99+99)/9) + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2858 &:= (1+1) \times (((1+1+11) \times (111-1)) - 1) \\
&:= 2 + ((22+2) \times ((22/2)^2 - 2)) \\
&:= 3 + (((33/3+3)^3) + 333/3) \\
&:= (44 \times (4^4+4)/4) - (4+4)/4 \\
&:= 5 + ((5^5 - (5 \times 55 + ((5+5)/5))) + 5) \\
&:= (6+6)/6 + ((6/6+6) \times (6 \times 66+6+6)) \\
&:= 7 \times 7 + (((77/7-7) + 7 \times 7)^{(7+7)/7}) \\
&:= (8+8)/8 + ((8+8+8) \times (888/8+8)) \\
&:= 9 \times (9 \times 9+9) + (((9+9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2859 &:= ((1+1) \times ((1+1+11) \times (111-1))) - 1 \\
&:= (22 \times ((2 \times 2^{2+2+2}) + 2)) - 2/2 \\
&:= 3 + ((3^3+3/3) \times (3 \times 33+3)) \\
&:= (44 \times (4^4+4)/4) - 4/4 \\
&:= 5 + ((5^5 - (5 \times 55 + 5/5)) + 5) \\
&:= 6 + (((6 \times 6/(6+6))^{6/6+6}) + 666) \\
&:= 77 + (7 \times (7 \times (7 \times 7+7) + 7) - (77/7)) \\
&:= 88/8 + (8 \times ((8 \times 88+8)/(8+8)/8)) \\
&:= (99 \times (99/9+9+9)) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2860 &:= (1+1) \times ((1+1+11) \times (111-1)) \\
&:= 22 \times ((2 \times 2^{2+2+2}) + 2) \\
&:= (3^3 - 3/3) \times ((333-3)/3) \\
&:= 44 \times (4^4+4)/4 \\
&:= 5 + ((5^5 - 5 \times 55) + 5) \\
&:= (66 - 6/6) \times (((6+6)/6+6 \times 6) + 6) \\
&:= 7 + ((7 \times (7 \times (7 \times 7+7) + 7+7)) + (77/7)) \\
&:= (8/8+8 \times 8) \times (88/(8+8)/8) \\
&:= 99/9 \times ((9 \times (9+9) - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2861 &:= 1 + ((1+1) \times ((1+1+11) \times (111-1))) \\
&:= 2/2 + (22 \times ((2 \times 2^{2+2+2}) + 2)) \\
&:= ((33/3+3)^3) + (3 \times (33+3+3)) \\
&:= 4/4 + (44 \times (4^4+4)/4) \\
&:= 5^5 + (55/5 - 5 \times 55) \\
&:= 6 + (((6/6+6) \times (6 \times 66 + (66/6))) + 6) \\
&:= 7 + (7 \times 7 \times (7 \times 7+7) + (777-7)/7) \\
&:= 8/8 + ((8/8+8 \times 8) \times (88/(8+8)/8)) \\
&:= (((9+9)/9)^9) + 9 \times (9 \times (9+9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2862 &:= (1+1) \times (1 + ((1+1+11) \times (111-1))) \\
&:= 2 + (22 \times ((2 \times 2^{2+2+2}) + 2)) \\
&:= 3 \times ((3+3) \times ((3+3) \times 3^3 - 3)) \\
&:= (4+4)/4 + (44 \times (4^4+4)/4) \\
&:= 5^5 + (((55+5)/5) - 5 \times 55) \\
&:= 6 + ((6/6+6) \times (6 \times 66+6+6)) \\
&:= 7 + (7 \times 7 \times (7 \times 7+7) + 777/7) \\
&:= (8 \times 8 - 88/8) \times ((8-88)/8+8 \times 8) \\
&:= (99 \times (99/9+9+9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2863 &:= 1 + ((1+1) \times (1 + ((1+1+11) \times (111-1)))) \\
&:= 2 + ((22 \times ((2 \times 2^{2+2+2}) + 2)) + 2/2) \\
&:= 3 + ((3^3 - 3/3) \times ((333-3)/3)) \\
&:= 4 + ((44 \times (4^4+4)/4) - 4/4) \\
&:= 55 + (((5-5^5)/(5+5)) - 5) + 5^5 \\
&:= (6/6+6) \times (((6 \times 66+6/6) + 6) + 6) \\
&:= 7 \times (7 \times 7 \times 7+77) - 77 \\
&:= 8 + (((8+8+8) \times (888/8+8)) - 8/8) \\
&:= 9/9 + ((99 \times (99/9+9+9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2864 &:= (1+1) \times ((111 \times (1+1+11)) - 11) \\
&:= (222 \times (22/2+2)) - 22 \\
&:= 3 + (((33/3+3)^3) + (3 \times (33+3+3))) \\
&:= 4 + (44 \times (4^4+4)/4) \\
&:= 5^5 + ((5 \times (5-55)) - (55/5)) \\
&:= ((6+6)/6+6) \times (6 \times (66-6) - ((6+6)/6)) \\
&:= 7/7 + (7 \times (7 \times 7 \times 7+77) - 77) \\
&:= 8 + ((8+8+8) \times (888/8+8)) \\
&:= 9 + (((9 \times ((9+9) \times (9+9) - 9)) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2865 &:= 1 + ((1+1) \times ((111 \times (1+1+11)) - 11)) \\
&:= 2/2 + ((222 \times (22/2+2)) - 22) \\
&:= 3 + (3 \times ((3+3) \times ((3+3) \times 3^3 - 3))) \\
&:= 4 + ((44 \times (4^4+4)/4) + 4/4) \\
&:= 5 + (((5^5 - 5 \times 55) + 5) + 5) \\
&:= 6 + (((6 \times 6/(6+6))^{6/6+6}) + 666) + 6) \\
&:= ((7+7)/7)^7 + 7 \times (7 \times (7 \times 7+7)) - 7 \\
&:= (8-8/8+8) \times (8 \times (8+8+8) - 8/8) \\
&:= 999/9 + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2866 &:= (1+1) \times (1 + ((111 \times (1+1+11)) - 11)) \\
&:= (2 \times ((2+2+2)^2 + 2)^2) - 22 \\
&:= 3 + (((3^3 - 3/3) \times ((333-3)/3)) + 3) \\
&:= 4 + ((44 \times (4^4+4)/4) + (4+4)/4) \\
&:= 5 + ((55/5 - 5 \times 55) + 5^5) \\
&:= 6 + ((66 - 6/6) \times (((6+6)/6+6 \times 6) + 6)) \\
&:= (7 \times 7 \times (7+7)) + (((7+7+7)/7)^7 - 7) \\
&:= 8 + (((8+8+8) \times (888/8+8)) + ((8+8)/8)) \\
&:= ((999+9)/9) + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2867 &:= ((1+11) \times (((1+1) \times (11^{1+1} - 1)) - 1)) - 1 \\
&:= 2/2 + ((2 \times ((2+2+2)^2 + 2)^2) - 22) \\
&:= (33/3)^3 + (3 \times ((3-3/3)^{3 \times 3})) \\
&:= (44/4 \times ((4/4+4^4) + 4)) - 4 \\
&:= 55 + (5^5 - (5^5+5)/(5+5)) \\
&:= (66/6+6 \times 6) \times (66 - 6+6/6) \\
&:= 77/7 + ((7/7+7) \times (7 \times 7 \times 7+7+7)) \\
&:= 88/8 + ((8+8+8) \times (888/8+8)) \\
&:= 9 + (((9+9)/9)^{99/9}) + 9 \times (9 \times 9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2868 &:= (1+11) \times (((1+1) \times (11^{1+1} - 1)) - 1) \\
&:= (2+2+2) \times (22^2 - (2+2+2)) \\
&:= (33 \times (3 \times 3^3 + 3+3)) - 3 \\
&:= 4 + ((44 \times (4^4+4)/4) + 4) \\
&:= 55 + (((5-5^5)/(5+5)) + 5^5) \\
&:= 66 + ((6 \times (6 \times (66+6+6))) - 6) \\
&:= 77 + (7 \times (7 \times (7 \times 7+7) + 7) - ((7+7)/7)) \\
&:= 8 + ((8/8+8 \times 8) \times (88/((8+8)/8))) \\
&:= (99 \times (99/9+9+9)) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2869 &:= 1 + ((1+11) \times (((1+1) \times (11^{1+1} - 1)) - 1)) \\
&:= 2/2 + ((2+2+2) \times (22^2 - (2+2+2))) \\
&:= 3/3 + ((33 \times (3 \times 3^3 + 3+3)) - 3) \\
&:= ((4/4+4)^{4+4/4}) - 4^4 \\
&:= 5^5 - ((5-5/5)^{5-5/5}) \\
&:= ((66-6) \times (6 \times 6+6+6)) - 66/6 \\
&:= 77 + (7 \times (7 \times (7 \times 7+7) + 7) - 7/7) \\
&:= (88/8+8) \times ((88-8/8) + 8 \times 8) \\
&:= (9/9+9+9) \times (9 \times (9+9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2870 &:= (11-1) \times (((1+1) \times (1+11)^{1+1}) - 1) \\
&:= (2/2+2+2) \times (((22+2)^2) - 2) \\
&:= (33 \times (3 \times 3^3 + 3+3)) - 3/3 \\
&:= 4/4 + (((4/4+4)^{4+4/4}) - 4^4) \\
&:= 5^5 + ((5 \times (5-55)) - 5) \\
&:= (6 \times 6 - 6/6+6) \times (((6+6)/6)^6 + 6) \\
&:= 77 + 7 \times (7 \times (7 \times 7+7) + 7) \\
&:= (8-88)/8 + (8 \times (8 \times (8 \times 8-8) - 88)) \\
&:= (99 \times (99/9+9+9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2871 &:= 11 \times (((1+1) \times ((11 \times (1+11)) - 1)) - 1) \\
&:= (2/2+2) \times (2 \times 22^2 - 22/2) \\
&:= 33 \times (3 \times 3^3 + 3+3) \\
&:= 44/4 \times ((4/4+4^4) + 4) \\
&:= 5^5 + (((5 \times (5-55)) - 5) + 5/5) \\
&:= 666/6 + ((66 \times (6 \times 6+6)) - (6+6)) \\
&:= 7/7 + (7 \times (7 \times (7 \times 7+7) + 7) + 77) \\
&:= (88-8/8) \times ((8/8+8+8+8) + 8) \\
&:= 99 \times (99/9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2872 &:= ((1+1+11) \times ((1+1) \times 111 - 1)) - 1 \\
&:= 2 + ((2/2+2+2) \times (((22+2)^2) - 2)) \\
&:= 3/3 + (33 \times (3 \times 3^3 + 3+3)) \\
&:= (4 \times (4 \times (4 \times 44+4))) - 4-4 \\
&:= 5^5 - (((5-(5+5)/5)^5) + 5) + 5 \\
&:= ((6+6)/6)^6 + (6 \times (6 \times (66+6+6))) \\
&:= ((7+7)/7)^7 + 7 \times 7 \times (7 \times 7+7) \\
&:= (8 \times (8 \times (8 \times 8-8) - 88)) - 8 \\
&:= 9/9 + (99 \times (99/9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2873 &:= (1+1+11) \times ((1+1) \times 111 - 1) \\
&:= (22/2+2) \times (222 - 2/2) \\
&:= 3 + ((33 \times (3 \times 3^3 + 3 + 3)) - 3/3) \\
&:= 4 + (((4/4+4)^{4+4/4}) - 4^4) \\
&:= 5^5 + ((5 \times (5 - 55)) - ((5+5)/5)) \\
&:= 66 + ((6 \times (6 \times (66 + 6 + 6))) - 6/6) \\
&:= (7 \times 7 \times (7 + 7)) + ((7 + 7 + 7)/7)^7 \\
&:= 8/8 + ((8 \times (8 \times (8 \times 8 - 8) - 88)) - 8) \\
&:= (9 + 9)/9 + (99 \times (99/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2874 &:= 1 + ((1+1+11) \times ((1+1) \times 111 - 1)) \\
&:= (2/2+2) \times ((2 \times (22^2 - (2+2))) - 2) \\
&:= 3 + (33 \times (3 \times 3^3 + 3 + 3)) \\
&:= (4 \times (4 \times (4 \times 44 + 4))) - ((4+4)/4 + 4) \\
&:= 5^5 + ((5 \times (5 - 55)) - 5/5) \\
&:= 66 + (6 \times (6 \times (66 + 6 + 6))) \\
&:= (7 - 7/7) \times (7 \times (77 - 7) - (77/7)) \\
&:= (8 + 8)/8 + ((8 \times (8 \times (8 \times 8 - 8) - 88)) - 8) \\
&:= 9 + ((9 + 9) \times (9 \times (9 + 9) - 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2875 &:= ((1+1)^{1+11}) - 11 \times 111 \\
&:= 2 + ((22/2+2) \times (222 - 2/2)) \\
&:= 3 + ((33 \times (3 \times 3^3 + 3 + 3)) + 3/3) \\
&:= 4 + (44/4 \times ((4/4+4^4) + 4)) \\
&:= 5^5 + (5 \times (5 - 55)) \\
&:= 66 + ((6 \times (6 \times (66 + 6 + 6))) + 6/6) \\
&:= 7777/7 + ((7 + 7) \times (77 + 7 \times 7)) \\
&:= (8 \times 8 \times 8 \times 8) - 88/8 \times 888/8 \\
&:= (9 + 9) \times 99 + (9999/9 - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2876 &:= 1 + (((1+1)^{1+11}) - 11 \times 111) \\
&:= 2 \times (((2+2+2)^2 + 2)^2 - (2+2+2)) \\
&:= 33 + (((33/3+3)^3) + 3 \times 33) \\
&:= (4 \times (4 \times (4 \times 44 + 4))) - 4 \\
&:= 5^5 + ((5 \times (5 - 55)) + 5/5) \\
&:= 6 + ((6 \times 6 - 6/6 + 6) \times (((6+6)/6)^6 + 6)) \\
&:= (7 \times (7 \times 77 - ((7+7)/7)^7)) - 7/7 \\
&:= 8 \times 8 + (((8 \times 8 \times 88) - 8)/(8+8)/8) \\
&:= 99 + (((9+9)/9)^{99/9} + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2877 &:= 1 + (1 + (((1+1)^{1+11}) - 11 \times 111)) \\
&:= (2 \times ((2+2+2)^2 + 2)^2) - 22/2 \\
&:= ((3^3 + 3) \times (3 \times 33 - 3)) - 3 \\
&:= 4/4 + ((4 \times (4 \times (4 \times 44 + 4))) - 4) \\
&:= 5^5 - (((5 - (5+5)/5)^5) + 5) \\
&:= 666/6 + ((66 \times (6 \times 6 + 6)) - 6) \\
&:= 7 \times (7 \times 77 - ((7+7)/7)^7) \\
&:= 8 + ((88/8 + 8) \times ((88 - 8/8) + 8 \times 8)) \\
&:= (999/9 \times (((9 - 9/9) + 9) + 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2878 &:= (1+1) \times (((11-1) \times (1+11)^{1+1}) - 1) \\
&:= ((2+2+2) \times (22^2 - (2+2))) - 2 \\
&:= 3/3 + (((3^3 + 3) \times (3 \times 33 - 3)) - 3) \\
&:= (4 \times (4 \times (4 \times 44 + 4))) - (4+4)/4 \\
&:= 5 + (((5 \times (5 - 55)) - ((5+5)/5)) + 5^5) \\
&:= ((66 - 6) \times (6 \times 6 + 6 + 6)) - (6+6)/6 \\
&:= 7/7 + (7 \times (7 \times 77 - ((7+7)/7)^7)) \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 88)) - (8+8)/8 \\
&:= 9 + ((9/9 + 9 + 9) \times (9 \times (9 + 9) - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2879 &:= ((1+1) \times ((11-1) \times (1+11)^{1+1}) - 1) \\
&:= ((2+2+2) \times (22^2 - (2+2))) - 2/2 \\
&:= ((3^3 + 3) \times (3 \times 33 - 3)) - 3/3 \\
&:= (4 \times (4 \times (4 \times 44 + 4))) - 4/4 \\
&:= 5 + (((5 \times (5 - 55)) - 5/5) + 5^5) \\
&:= ((66 - 6) \times (6 \times 6 + 6 + 6)) - 6/6 \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7) + ((7+7)/7)^7) \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 88)) - 8/8 \\
&:= 9 + ((99 \times (99/9 + 9 + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2880 &:= (1+1) \times ((11-1) \times (1+11)^{1+1}) \\
&:= (2+2+2) \times (22^2 - (2+2)) \\
&:= (3^3 + 3) \times (3 \times 33 - 3) \\
&:= 4 \times (4 \times (4 \times 44 + 4)) \\
&:= 5 + ((5 \times (5 - 55)) + 5^5) \\
&:= (66 - 6) \times (6 \times 6 + 6 + 6) \\
&:= (7 \times 7 - 7/7) \times (77/7 + 7 \times 7) \\
&:= 8 \times (8 \times (8 \times 8 - 8) - 88) \\
&:= 9 + (99 \times (99/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2881 &:= 1 + ((1+1) \times ((11-1) \times (1+11)^{1+1})) \\
&:= 2/2 + ((2+2+2) \times (22^2 - (2+2))) \\
&:= 3/3 + (((3^3 + 3) \times (3 \times 33 - 3)) - 3/3) \\
&:= 4/4 + (4 \times (4 \times (4 \times 44 + 4))) \\
&:= 5 + (((5 \times (5 - 55)) + 5/5) + 5^5) \\
&:= 6/6 + (((66 - 6) \times (6 \times 6 + 6 + 6)) - 6/6) \\
&:= ((7/7 - 77) \times (77/7 - 7 \times 7)) - 7 \\
&:= 8/8 + (8 \times (8 \times (8 \times 8 - 8) - 88)) \\
&:= 9 + ((99 \times (99/9 + 9 + 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2882 &:= (1+1) \times (11 \times ((11 \times (1+11)) - 1)) \\
&:= (22^2 \times (2+2+2)) - 22 \\
&:= 3 + (((3^3 + 3) \times (3 \times 33 - 3)) - 3/3) \\
&:= (4+4)/4 + (4 \times (4 \times (4 \times 44 + 4))) \\
&:= 5^5 - (((5 - (5+5)/5)^5) + 5) \\
&:= (6+6)/6 + ((66 - 6) \times (6 \times 6 + 6 + 6)) \\
&:= 77/7 \times (((7 \times 7 \times 77 - 7)/(7+7)) - 7) \\
&:= (8+8)/8 + (8 \times (8 \times (8 \times 8 - 8) - 88)) \\
&:= 99/9 + (99 \times (99/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2883 &:= 1 + ((1+1) \times (11 \times ((11 \times (1+11)) - 1))) \\
&:= 2/2 + ((22^2 \times (2+2+2)) - 22) \\
&:= 3 + ((3^3 + 3) \times (3 \times 33 - 3)) \\
&:= 4 + ((4 \times (4 \times (4 \times 44 + 4))) - 4/4) \\
&:= 5^5 + (5/5 - ((5 - (5+5)/5)^5)) \\
&:= 666/6 + (66 \times (6 \times 6 + 6)) \\
&:= (7 \times ((7 \times 7 \times 7 - 7) + 77)) - (7/7 + 7) \\
&:= 88/8 + ((8 \times (8 \times (8 \times 8 - 8) - 88)) - 8) \\
&:= 99 + (99 \times (9 + 9 + 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2884 &:= (1+1) \times (111 + 11^{1+1+1}) \\
&:= 2 \times (((2+2+2)^2 + 2)^2 - 2) \\
&:= 3 + (((3^3 + 3) \times (3 \times 33 - 3)) + 3/3) \\
&:= 4 + (4 \times (4 \times (4 \times 44 + 4))) \\
&:= 5 + (((5 \times (5 - 55)) - 5/5) + 5^5) + 5 \\
&:= (6 \times 666) - (6666 + 6)/6 \\
&:= (7 \times ((7 \times 7 \times 7 - 7) + 77)) - 7 \\
&:= 8 \times 8 + (((8 \times 8 \times 88) + 8)/(8+8)/8) \\
&:= (9 + 9) \times 99 + (9999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2885 &:= ((1+1) \times (111 \times (1+1+11))) - 1 \\
&:= (222 \times (22/2 + 2)) - 2/2 \\
&:= ((333 \times (3^3 - 3/3)) - 3)/3 \\
&:= 4 + ((4 \times (4 \times (4 \times 44 + 4))) + 4/4) \\
&:= 5 + (((5 \times (5 - 55)) + 5^5) + 5) \\
&:= (6 \times 666) - (6666/6) \\
&:= 7/7 + ((7 \times ((7 \times 7 \times 7 - 7) + 77)) - 7) \\
&:= ((8 - 88/8) + 8) \times (8 \times (8 \times 8 + 8) + 8/8) \\
&:= (9 + 9) \times 99 + ((9999 + 9)/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2886 &:= (1+1) \times (111 \times (1+1+11)) \\
&:= 222 \times (22/2 + 2) \\
&:= (3^3 - 3/3) \times 333/3 \\
&:= 4 + ((4 \times (4 \times (4 \times 44 + 4))) + (4+4)/4) \\
&:= 5 \times 555 + 555/5 \\
&:= 6 + ((66 - 6) \times (6 \times 6 + 6 + 6)) \\
&:= (7/7 + 77) \times (7 \times 7 - (77 + 7)/7) \\
&:= 888/8 \times (((8+8)/8) + 8) + 8) \\
&:= 999/9 \times (((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2887 &:= 1 + ((1+1) \times (111 \times (1+1+11))) \\
&:= 2/2 + (222 \times (22/2 + 2)) \\
&:= ((333 \times (3^3 - 3/3)) + 3)/3 \\
&:= 4 \times 444 + 4444/4 \\
&:= 5 + (5^5 - ((5 - (5+5)/5)^5)) \\
&:= 6 + (((66 - 6) \times (6 \times 6 + 6 + 6)) + 6/6) \\
&:= 7 + ((7 \times 7 - 7/7) \times (77/7 + 7 \times 7)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 88)) - 8/8) \\
&:= 9 \times (9 + 9) \times (9 + 9) - (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2888 &:= (1+1) \times (1+(111 \times (1+1+11))) \\
&:= 2 \times ((2+2+2)^2 + 2)^2 \\
&:= 3 + (((333 \times (3^3 - 3/3)) - 3)/3) \\
&:= 4 + ((4 \times (4 \times (4 \times 44 + 4))) + 4) \\
&:= 5 + ((5/5 - ((5 - (5+5)/5)^5)) + 5^5) \\
&:= ((6+6)/6 + 6) \times (6 \times (66 - 6) + 6/6) \\
&:= (7/7 - 77) \times (77/7 - 7 \times 7) \\
&:= 8 + (8 \times (8 \times (8 \times 8 - 8) - 88)) \\
&:= (9 - 9/9) \times ((9/9 + 9 + 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2889 &:= 1 + ((1+1) \times (1+(111 \times (1+1+11)))) \\
&:= 2/2 + (2 \times ((2+2+2)^2 + 2)^2) \\
&:= 3 \times (3 \times (333 - (3 \times 3 + 3))) \\
&:= 4 + (((4 \times (4 \times (4 \times 44 + 4))) + 4/4) + 4) \\
&:= 5^5 - (555/5 + 5 \times 5 \times 5) \\
&:= 6 + ((66 \times (6 \times 6 + 6)) + 666/6) \\
&:= (7 \times ((7 \times 7 \times 7 - 7) + 77)) - (7 + 7)/7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 88)) + 8/8) \\
&:= (9 + 9 + 9) \times ((99 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2890 &:= (1+1) \times (1+(1+(111 \times (1+1+11)))) \\
&:= 2 + (2 \times ((2+2+2)^2 + 2)^2) \\
&:= 3 + (((333 \times (3^3 - 3/3)) + 3)/3) \\
&:= (44 - 4)/4 + (4 \times (4 \times (4 \times 44 + 4))) \\
&:= (5 \times (555 + 5 \times 5)) - 5 - 5 \\
&:= 6 + ((66 \times (6 \times 6 + 6)) + (666 + 6)/6) \\
&:= (7 \times ((7 \times 7 \times 7 - 7) + 77)) - 7/7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 88)) + ((8+8)/8)) \\
&:= 9/9 + ((9+9+9) \times ((99 - 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2891 &:= ((1+11) \times (((1+1) \times 11^{1+1}) - 1)) - 1 \\
&:= ((2+2+2) \times (22^2 - 2)) - 2/2 \\
&:= 33/3 + ((3^3 + 3) \times (3 \times 33 - 3)) \\
&:= 44/4 + (4 \times (4 \times (4 \times 44 + 4))) \\
&:= 5 + (5 \times 555 + 555/5) \\
&:= 6 + ((6 \times 666) - (6666/6)) \\
&:= 7 \times ((7 \times 7 \times 7 - 7) + 77) \\
&:= 88/8 + (8 \times (8 \times (8 \times 8 - 8) - 88)) \\
&:= (9 - ((9+9)/9)) \times (((9+9)/9)^9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2892 &:= (1+11) \times (((1+1) \times 11^{1+1}) - 1) \\
&:= (2+2+2) \times (22^2 - 2) \\
&:= (3/3 + 3) \times (3^{3+3} - (3+3)) \\
&:= (4 \times ((4 \times (4 \times 44 + 4)) + 4)) - 4 \\
&:= 5 + ((5^5 - ((5 - (5+5)/5)^5)) + 5) \\
&:= 6 + (((66 - 6) \times (6 \times 6 + 6 + 6)) + 6) \\
&:= 7/7 + (7 \times ((7 \times 7 \times 7 - 7) + 77)) \\
&:= ((8 \times (8 \times 88 + 8)) + 88)/((8+8)/8) \\
&:= (9+9) \times 99 + ((9999 - 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2893 &:= 11 \times (((1+1) \times (11 \times (1+1+1))) - 1) \\
&:= 2/2 + ((2+2+2) \times (22^2 - 2)) \\
&:= 3/3 + ((3/3 + 3) \times (3^{3+3} - (3+3))) \\
&:= 44/4 \times (((4^4 - 4/4) + 4) + 4) \\
&:= 5^5 + (55/5 - ((5 - (5+5)/5)^5)) \\
&:= 66/6 \times (6 \times (6 \times 6 + 6) + (66/6)) \\
&:= (7+7)/7 + (7 \times ((7 \times 7 \times 7 - 7) + 77)) \\
&:= 88/8 \times (((8+8) \times (8+8) - 8/8) + 8) \\
&:= (9+9) \times 99 + 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2894 &:= 1 + (11 \times (((1+1) \times (11 \times (1+1+1))) - 1)) \\
&:= 2 + ((2+2+2) \times (22^2 - 2)) \\
&:= (3 \times (3 \times 333 - 33)) - (3/3 + 3) \\
&:= (4 \times ((4 \times (4 \times 44 + 4)) + 4)) - (4+4)/4 \\
&:= (5 \times (555 + 5 \times 5)) - (5/5 + 5) \\
&:= 6 + (((6+6)/6 + 6) \times (6 \times (66 - 6) + 6/6)) \\
&:= 7 + (((7 \times 7 - 7/7) \times (77/7 + 7 \times 7)) + 7) \\
&:= 8 + (888/8 \times (((8+8)/8) + 8) + 8) \\
&:= ((9+9)/9) \times (9 \times 9 \times (9+9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2895 &:= 1 + (1 + (11 \times (((1+1) \times (11 \times (1+1+1))) - 1))) \\
&:= 2 + (((2+2+2) \times (22^2 - 2)) + 2/2) \\
&:= (3 \times (3 \times 333 - 33)) - 3 \\
&:= (4 \times ((4 \times (4 \times 44 + 4)) + 4)) - 4/4 \\
&:= (5 \times (555 + 5 \times 5)) - 5 \\
&:= 6 + (((66 \times (6 \times 6 + 6)) + 666/6) + 6) \\
&:= 7 + ((7/7 - 77) \times (77/7 - 7 \times 7)) \\
&:= (8 - 8/8 + 8) \times (8 \times (8 + 8 + 8) + 8/8) \\
&:= 9 + (999/9 \times ((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2896 &:= 11 + (((1+1) \times (111 \times (1+1+1))) - 1) \\
&:= 2 + (((2+2+2) \times (22^2 - 2)) + 2) \\
&:= 3/3 + ((3 \times (3 \times 333 - 33)) - 3) \\
&:= 4 \times ((4 \times (4 \times 44 + 4)) + 4) \\
&:= 5/5 + ((5 \times (555 + 5 \times 5)) - 5) \\
&:= (6 \times 666) + ((66 - 6666)/6) \\
&:= 7 + ((7 \times ((7 \times 7 \times 7 - 7) + 77)) - ((7+7)/7)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 88)) + 8) \\
&:= 9 \times (9+9) \times (9+9) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2897 &:= 11 + ((1+1) \times (111 \times (1+1+1))) \\
&:= 22/2 + (222 \times (22/2 + 2)) \\
&:= (3 \times (3 \times 333 - 33)) - 3/3 \\
&:= 4/4 + (4 \times ((4 \times (4 \times 44 + 4)) + 4)) \\
&:= 5 + (((5^5 - ((5 - (5+5)/5)^5)) + 5) + 5) \\
&:= 6 + (((6 \times 666) - (6666/6)) + 6) \\
&:= 7 + ((7 \times ((7 \times 7 \times 7 - 7) + 77)) - 7/7) \\
&:= 88 + ((8 \times 8 - 88/8)^{(8+8)/8}) \\
&:= 9 \times (9+9) \times (9+9) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2898 &:= ((1+1+11) \times (1+(1+1) \times 111)) - 1 \\
&:= (2/2 + 2) \times (2 \times 22^2 - 2) \\
&:= 3 \times (3 \times 333 - 33) \\
&:= ((4^4 - 4)/4) \times ((4+4)/4 + 44) \\
&:= (5 \times (555 + 5 \times 5)) - (5+5)/5 \\
&:= (6/6 + 6) \times ((6 \times 66 + 6 + 6) + 6) \\
&:= 7 + (7 \times ((7 \times 7 \times 7 - 7) + 77)) \\
&:= (88/8 - 8) \times ((88 \times 88 - (8+8))/8) \\
&:= (9+9) \times (9 \times (9+9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2899 &:= (1+1+11) \times (1+(1+1) \times 111) \\
&:= (22/2 + 2) \times (222 + 2/2) \\
&:= 3/3 + (3 \times (3 \times 333 - 33)) \\
&:= 4 + ((4 \times ((4 \times (4 \times 44 + 4)) + 4)) - 4/4) \\
&:= (5 \times (555 + 5 \times 5)) - 5/5 \\
&:= (6/6 + 6 + 6) \times (6 \times 6 \times 6 + 6/6 + 6) \\
&:= 7 + ((7 \times ((7 \times 7 \times 7 - 7) + 77)) + 7/7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 88)) + (88/8)) \\
&:= 9/9 + ((9+9) \times (9 \times (9+9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2900 &:= 1 + ((1+1+11) \times (1+(1+1) \times 111)) \\
&:= 2 \times (((2/2 + 2) \times 22^2) - 2) \\
&:= (3/3 + 3) \times (3^{3+3} - (3/3 + 3)) \\
&:= 4 + (4 \times ((4 \times (4 \times 44 + 4)) + 4)) \\
&:= 5 \times (555 + 5 \times 5) \\
&:= (6 - ((6+6)/6)) \times ((66 \times 66 - 6)/6) \\
&:= (7/7 + 7 \times 7) \times (((7+7)/7 + 7 \times 7) + 7) \\
&:= 88 + (((8 \times 8 \times 88) - 8)/((8+8)/8)) \\
&:= (9/9 + 99) \times (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2901 &:= ((1+1) \times ((11 \times (11 \times (1+1+1))) - 1)) - 1 \\
&:= (2/2 + 2) \times (2 \times 22^2 - 2/2) \\
&:= 3 + (3 \times (3 \times 333 - 33)) \\
&:= 4 + ((4 \times ((4 \times (4 \times 44 + 4)) + 4)) + 4/4) \\
&:= 5/5 + (5 \times (555 + 5 \times 5)) \\
&:= (6666 \times 6/6 + 6) - (6 \times (66 + 6)) \\
&:= ((77 - 7)/7) + (7 \times ((7 \times 7 \times 7 - 7) + 77)) \\
&:= (88/8 - 8) \times ((88 \times 88 - 8)/8) \\
&:= 9 + (((9999 - 9)/9) + (9+9) \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2902 &:= (1+1) \times ((11 \times (11 \times (1+1+1))) - 1) \\
&:= (22^2 \times (2+2+2)) - 2 \\
&:= 3 + ((3 \times (3 \times 333 - 33)) + 3/3) \\
&:= 4 + (((4^4 - 4)/4) \times ((4+4)/4 + 44)) \\
&:= (5+5)/5 + (5 \times (555 + 5 \times 5)) \\
&:= 66 + (((66 \times (6 \times 6 + 6)) + ((6+6)/6)^6) \\
&:= 77/7 + (7 \times ((7 \times 7 \times 7 - 7) + 77)) \\
&:= 88 + (((8+8)/8) \times (88 \times (8+8) - 8/8)) \\
&:= 9 + (9999/9 + (9+9) \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2903 &:= ((1+1) \times (11 \times (11 \times (1+11)))) - 1 \\
&:= (22^2 \times (2+2+2)) - 2/2 \\
&:= ((3/3+3) \times (3^{3+3} - 3)) - 3/3 \\
&:= (44 \times ((4^4 + 4 + 4)/4)) - 4/4 \\
&:= 5^5 + (5 - 5555)/(5 \times 5) \\
&:= ((6 - 6/6)^{6-6/6}) - (6 \times 6 \times 6 + 6) \\
&:= (77 + 7)/7 + (7 \times ((7 \times 7 \times 7 - 7) + 77)) \\
&:= 88 + ((88 \times ((8 + 8 + 8) + 8)) - 8/8) \\
&:= 9 \times (9 + 9) \times (9 + 9) - ((99 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2904 &:= (1+1) \times (11 \times (11 \times (1+11))) \\
&:= 22^2 \times (2+2+2) \\
&:= (3/3+3) \times (3^{3+3} - 3) \\
&:= 44 \times ((4^4 + 4 + 4)/4) \\
&:= 5 + ((5 \times (555 + 5 \times 5)) - 5/5) \\
&:= 66 \times (((6+6)/6 + 6 \times 6) + 6) \\
&:= (7 - 7/7) \times ((7 \times (77 - 7) - 7) + 7/7) \\
&:= 88 + (88 \times ((8 + 8 + 8) + 8)) \\
&:= 9 \times (9 + 9) \times (9 + 9) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2905 &:= 1 + ((1+1) \times (11 \times (11 \times (1+11)))) \\
&:= 2/2 + (22^2 \times (2+2+2)) \\
&:= 3/3 + ((3/3+3) \times (3^{3+3} - 3)) \\
&:= 4/4 + (44 \times ((4^4 + 4 + 4)/4)) \\
&:= 5 + (5 \times (555 + 5 \times 5)) \\
&:= 6/6 + (66 \times (((6+6)/6 + 6 \times 6) + 6)) \\
&:= 7 + ((7 \times ((7 \times 7 \times 7 - 7) + 77)) + 7) \\
&:= 8/8 + ((88 \times ((8 + 8 + 8) + 8)) + 88) \\
&:= 9 \times (9 + 9) \times (9 + 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2906 &:= (1+1) \times (1 + (11 \times (11 \times (1+11)))) \\
&:= 2 + (22^2 \times (2+2+2)) \\
&:= (3+3) \times 3^3 + ((33/3+3)^3) \\
&:= (4+4)/4 + (44 \times ((4^4 + 4 + 4)/4)) \\
&:= 5 + ((5 \times (555 + 5 \times 5)) + 5/5) \\
&:= 6 + ((6 - ((6+6)/6)) \times ((66 \times 66 - 6)/6)) \\
&:= 7 + (((7 \times ((7 \times 7 \times 7 - 7) + 77)) + 7/7) + 7) \\
&:= 88 + ((88 \times ((8 + 8 + 8) + 8)) + ((8 + 8)/8)) \\
&:= 9 \times (9 + 9) \times (9 + 9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2907 &:= 1 + ((1+1) \times (1 + (11 \times (11 \times (1+11)))))) \\
&:= 2 + ((22^2 \times (2+2+2)) + 2/2) \\
&:= 3 \times (3^3 \times (33+3)) - 3 \\
&:= 4 + ((44 \times ((4^4 + 4 + 4)/4)) - 4/4) \\
&:= 5 \times 5 + (5^5 - ((5 - (5+5)/5)^5)) \\
&:= (66/6+6) \times ((666/6 - 6) + 66) \\
&:= ((7+7)/7 + 7 \times 7) \times ((7/7 + 7 \times 7) + 7) \\
&:= (88/8 - 8) \times ((88 \times 88 + 8)/8) \\
&:= 9 \times (9 + 9) \times (9 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2908 &:= (1+1) \times (1 + (1 + (11 \times (11 \times (1+11)))))) \\
&:= 2 + ((22^2 \times (2+2+2)) + 2) \\
&:= 3/3 + (3 \times ((3^3 \times (33+3)) - 3)) \\
&:= 4 + (44 \times ((4^4 + 4 + 4)/4)) \\
&:= 5 + 5^5 + (5 - 5555)/(5 \times 5) \\
&:= (6 - ((6+6)/6)) \times ((66 \times 66 + 6)/6) \\
&:= 777 + (((7+7+7)/7)^7 - (7 \times 7 + 7)) \\
&:= 88 + (((8 \times 8 \times 88) + 8)/(8+8)/8) \\
&:= 9/9 + (9 \times (9 + 9) \times (9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2909 &:= 1 + ((1+1) \times (1 + (1 + (11 \times (11 \times (1+11)))))) \\
&:= 2 + (((22^2 \times (2+2+2)) + 2/2) + 2) \\
&:= ((3/3+3) \times (3^{3+3} - 3/3)) - 3 \\
&:= 4 + ((44 \times ((4^4 + 4 + 4)/4)) + 4/4) \\
&:= 5^5 + ((5 - 5/5) \times (5/5 - 55)) \\
&:= ((6 - 6/6)^{6-6/6}) - 6 \times 6 \times 6 \\
&:= ((7 \times 7 - ((7+7)/7) + 7)^{(7+7)/7}) - 7 \\
&:= 8 + ((88/8 - 8) \times ((88 \times 88 - 8)/8)) \\
&:= (9 + 9)/9 + (9 \times (9 + 9) \times (9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2910 &:= (1+1) \times (((1+1+11) \times (1+111)) - 1) \\
&:= (2/2+2) \times (2 \times 22^2 + 2) \\
&:= 3 + (3 \times ((3^3 \times (33+3)) - 3)) \\
&:= ((4+4)/4 + 4) \times ((44 \times 44 + 4)/4) \\
&:= 5 + (5 \times (555 + 5 \times 5)) + 5 \\
&:= ((66 - 6 - 6)^{(6+6)/6}) - 6 \\
&:= (7 - 7/7) \times ((7 \times (77 - 7) - 7) + ((7+7)/7)) \\
&:= (88/8 - 8) \times (88 \times 88 + 8 + 8)/8 \\
&:= ((9 + 9 + 9)/9) + (9 \times (9 + 9) \times (9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2911 &:= ((1+1) \times ((1+1+11) \times (1+111))) - 1 \\
&:= 2/2 + ((2/2+2) \times (2 \times 22^2 + 2)) \\
&:= 3 + ((3 \times ((3^3 \times (33+3)) - 3)) + 3/3) \\
&:= 444/4 + (4 \times (444 + 4^4)) \\
&:= ((55 - 5/5)^{(5+5)/5}) - 5 \\
&:= 6/6 + (((66 - 6 - 6)^{(6+6)/6}) - 6) \\
&:= (7 \times 7 - (7/7 + 7)) \times ((7/7 - 7) + 77) \\
&:= 8 + (((88 \times ((8 + 8 + 8) + 8)) - 8/8) + 88) \\
&:= ((9 - 99)/(9 + 9)) + 9 \times (9 + 9) \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2912 &:= (1+1) \times ((1+1+11) \times (1+111)) \\
&:= (22/2+2) \times (222+2) \\
&:= (3/3+3) \times (3^{3+3} - 3/3) \\
&:= 4 \times (((4 \times (4 \times 44 + 4)) + 4) + 4) \\
&:= 5^5 + (((5 - 5^5)/(5 + 5 + 5)) - 5) \\
&:= (6+6)/6 + (((66 - 6 - 6)^{(6+6)/6}) - 6) \\
&:= 7 \times (((77 \times 77 - 7)/(7+7)) - 7) \\
&:= 8 + ((88 \times ((8 + 8 + 8) + 8)) + 88) \\
&:= (9 - 9/9) \times (((9 \times 9 \times 9 \times 9) - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2913 &:= 1 + ((1+1) \times ((1+1+11) \times (1+111))) \\
&:= 2/2 + ((22/2+2) \times (222+2)) \\
&:= (3 \times (3^3 \times (33+3))) - 3 \\
&:= 4^4 + (((4 - 4/4) + 4)^4) + 4^4 \\
&:= 5^5 - ((55 + 5^5)/(5 + 5 + 5)) \\
&:= (6 \times ((6+6) \times (6 \times 6 + 6))) - 666/6 \\
&:= 7/7 + (7 \times (((77 \times 77 - 7)/(7+7)) - 7)) \\
&:= 8 \times 8 \times 8 + ((8 - 8/8)^{8 \times 8/(8+8)}) \\
&:= 9 \times (9 + 9) \times (9 + 9) - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2914 &:= (1+1) \times (1 + ((1+1+11) \times (1+111))) \\
&:= ((2+2+2) \times (22^2 + 2)) - 2 \\
&:= 3/3 + ((3 \times (3^3 \times (33+3))) - 3) \\
&:= (44 - 4/4 + 4) \times (4^4 - 4 - 4)/4 \\
&:= 55 \times 55 - 555/5 \\
&:= ((66 - 6 - 6)^{(6+6)/6}) - (6+6)/6 \\
&:= 7 + (((7+7)/7 + 7 \times 7) \times ((7/7 + 7 \times 7) + 7)) \\
&:= (8 \times 8 - ((8+8)/8)) \times (8 \times 8 - (8/8 + 8 + 8)) \\
&:= 9 \times (9 + 9) \times (9 + 9) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2915 &:= 11 \times (1 + ((1+1) \times (11 \times (1+11)))) \\
&:= 22/2 + (22^2 \times (2+2+2)) \\
&:= (3 \times (3^3 \times (33+3))) - 3/3 \\
&:= 44/4 \times (((4/4 + 4^4) + 4) + 4) \\
&:= 55 \times (55 - (5+5)/5) \\
&:= ((66 - 6 - 6)^{(6+6)/6}) - 6/6 \\
&:= 777 + (((7+7+7)/7)^7 - 7 \times 7) \\
&:= 88/8 \times (((8+8) \times (8+8) + 8/8) + 8) \\
&:= 9 \times (9 + 9) \times (9 + 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2916 &:= ((111 - 1)/(1 + 1) - 1)^{1+1} \\
&:= (2 + 2 + 2) \times (22^2 + 2) \\
&:= 3 \times (3^3 \times (33 + 3)) \\
&:= 4 \times ((4 - 4/4)^{4+(4+4)/4}) \\
&:= (55 - 5/5)^{(5+5)/5} \\
&:= (66 - 6 - 6)^{(6+6)/6} \\
&:= (7 \times 7 - ((7+7)/7) + 7)^{(7+7)/7} \\
&:= ((8 - 88)/8 + 8 \times 8)^{(8+8)/8} \\
&:= 9 \times (9 + 9) \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2917 &:= 1 + (((111 - 1)/(1 + 1) - 1)^{1+1}) \\
&:= 2/2 + ((2 + 2 + 2) \times (22^2 + 2)) \\
&:= 3/3 + (3 \times (3^3 \times (33 + 3))) \\
&:= 4 + (((4 - 4/4) + 4)^4) + 4^4 + 4^4 \\
&:= 5^5 + (((5 - 5^5)/(5 + 5 + 5)) - 5) \\
&:= 6/6 + ((66 - 6 - 6)^{(6+6)/6}) \\
&:= 7/7 + ((7 \times 7 - ((7+7)/7) + 7)^{(7+7)/7}) \\
&:= 8/8 + (((8 - 88)/8 + 8 \times 8)^{(8+8)/8}) \\
&:= 9/9 + 9 \times (9 + 9) \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2918 &:= 1 + (1 + (((111 - 1)/(1 + 1) - 1)^{1+1})) \\
&:= 2 + ((2 + 2 + 2) \times (22^2 + 2)) \\
&:= 3 + ((3 \times (3^3 \times (33 + 3))) - 3/3) \\
&:= 4 + ((44 - 4/4 + 4) \times (4^4 - 4 - 4)/4) \\
&:= 5 + (5^5 - ((55 + 5^5)/(5 + 5 + 5))) \\
&:= (6 + 6)/6 + ((66 - 6 - 6)^{(6+6)/6}) \\
&:= (77 \times (7 \times 7 - 77/7)) - (7/7 + 7) \\
&:= 8 + ((88/8 - 8) \times (88 \times 88 + 8 + 8)/8) \\
&:= (9 + 9)/9 + 9 \times (9 + 9) \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2919 &:= 11111 - ((1 + 1)^{1+1+11}) \\
&:= 2 + (((2 + 2 + 2) \times (22^2 + 2)) + 2/2) \\
&:= 3 + (3 \times (3^3 \times (33 + 3))) \\
&:= 4 + (44/4 \times (((4/4 + 4^4) + 4) + 4)) \\
&:= 5 + (55 \times 55 - 555/5) \\
&:= 666/6 + (6 \times (6 \times (66 + 6 + 6))) \\
&:= (77 \times (7 \times 7 - 77/7)) - 7 \\
&:= (8 - 8/8) \times ((8 \times 8 \times 8 - (88 + 8)) + 8/8) \\
&:= ((9 + 9 + 9)/9) + 9 \times (9 + 9) \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2920 &:= 1 + (11111 - ((1 + 1)^{1+1+11})) \\
&:= 2 + (((2 + 2 + 2) \times (22^2 + 2)) + 2) \\
&:= (3/3 + 3) \times (3^{3+3} + 3/3) \\
&:= 4 + (4 \times ((4 - 4/4)^{4+(4+4)/4})) \\
&:= 5 + (55 \times (55 - (5 + 5)/5)) \\
&:= 6 + (((66 - 6 - 6)^{(6+6)/6}) - ((6 + 6)/6)) \\
&:= 7/7 + ((77 \times (7 \times 7 - 77/7)) - 7) \\
&:= (8 \times (888 - 8 \times 8 \times 8)) - 88 \\
&:= (9 - 9/9) \times (((9 \times 9 \times 9 \times 9) + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2921 &:= 1 + (1 + (11111 - ((1 + 1)^{1+1+11}))) \\
&:= (22 + 2/2) \times ((2^{2 \times (2+2)} - 2)/2) \\
&:= 3 + (((3 \times (3^3 \times (33 + 3))) - 3/3) + 3) \\
&:= ((44 + 4/4) \times (4^4 + 4)/4) - 4 \\
&:= 5 + ((55 - 5/5)^{(5+5)/5}) \\
&:= 6 + (((66 - 6 - 6)^{(6+6)/6}) - 6/6) \\
&:= ((7 + 7)/7)^7 + 7 \times (7 \times (7 \times 7 + 7) + 7) \\
&:= ((8 - 8/8 + 8) + 8) \times (8 \times (8 + 8) - 8/8) \\
&:= 9 \times (9 + 9) \times (9 + 9) + ((9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2922 &:= (1 + 1) \times ((11 \times (1 + (11 \times (1 + 11)))) - (1 + 1)) \\
&:= (2/2 + 2) \times ((2 \times (22^2 + 2)) + 2) \\
&:= 3 + ((3 \times (3^3 \times (33 + 3))) + 3) \\
&:= (44/4 \times ((44 - 4)/4 + 4^4)) - 4 \\
&:= 5 + (((5 - 5^5)/(5 + 5 + 5)) + 5^5) \\
&:= 6 + ((66 - 6 - 6)^{(6+6)/6}) \\
&:= (7 \times (7 \times (7 + 7) + 7)) + ((7 + 7 + 7)/7)^7 \\
&:= (8 \times (8 \times 8 \times 8 - 8)) + ((8 - 8888)/8) \\
&:= 9 + (9 \times (9 + 9) \times (9 + 9) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2923 &:= 11 + ((1 + 1) \times ((1 + 1 + 11) \times (1 + 11))) \\
&:= 2 + ((22 + 2/2) \times ((2^{2 \times (2+2)} - 2)/2)) \\
&:= 3 + ((3/3 + 3) \times (3^{3+3} + 3/3)) \\
&:= 44 + ((4 \times (4 \times (4 \times 44 + 4))) - 4/4) \\
&:= 5^5 + (((5 + 5) \times (5 - 5 \times 5)) - ((5 + 5)/5)) \\
&:= 6 + (((66 - 6 - 6)^{(6+6)/6}) + 6/6) \\
&:= 7 + ((7 \times 7 - ((7 + 7)/7) + 7)^{(7+7)/7}) \\
&:= 8 + (88/8 \times (((8 + 8) \times (8 + 8) + 8/8) + 8)) \\
&:= 9 + (9 \times (9 + 9) \times (9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2924 &:= (1 + 1) \times ((11 \times (1 + (11 \times (1 + 11)))) - 1) \\
&:= 2 \times (2 \times (((2/2 + 2)^{2+2+2}) + 2)) \\
&:= (3/3 + 3) \times ((3^{3+3} - 3/3) + 3) \\
&:= 44 + (4 \times (4 \times (4 \times 44 + 4))) \\
&:= 5^5 + (((5 + 5) \times (5 - 5 \times 5)) - 5/5) \\
&:= ((6 \times 6 + 6/6) + 6) \times (((6 + 6)/6) + 66) \\
&:= (77 \times (7 \times 7 - 77/7)) - (7 + 7)/7 \\
&:= 8 + (((8 - 88)/8 + 8 \times 8)^{(8+8)/8}) \\
&:= 9 + (9 \times (9 + 9) \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2925 &:= (1 + 1 + 11) \times (1 + ((1 + 1) \times (1 + 11))) \\
&:= 22 + ((22^2 \times (2 + 2 + 2)) - 2/2) \\
&:= 3 \times ((3^3 \times (33 + 3)) + 3) \\
&:= (44 + 4/4) \times (4^4 + 4)/4 \\
&:= 5 \times ((555 + 5 \times 5) + 5) \\
&:= (6/6 - 66) \times (66 - 666/6) \\
&:= (77 \times (7 \times 7 - 77/7)) - 7/7 \\
&:= (8/8 + 8 \times 8) \times (8 \times 8 - (88/8 + 8)) \\
&:= 9 + 9 \times (9 + 9) \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2926 &:= (1 + 1) \times (11 \times (1 + (11 \times (1 + 11)))) \\
&:= 22 + (22^2 \times (2 + 2 + 2)) \\
&:= 3/3 + (3 \times ((3^3 \times (33 + 3)) + 3)) \\
&:= 44/4 \times ((44 - 4)/4 + 4^4) \\
&:= 5 + (((55 - 5/5)^{(5+5)/5}) + 5) \\
&:= ((6 + 6)/6 + 6 \times 6) \times (66/6 + 66) \\
&:= 77 \times (7 \times 7 - 77/7) \\
&:= 8 \times 88 + (((8 + 8)/8) \times 8888/8) \\
&:= 9 + (9 \times (9 + 9) \times (9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2927 &:= 1 + ((1 + 1) \times (11 \times (1 + (11 \times (1 + 11)))))) \\
&:= 22 + ((22^2 \times (2 + 2 + 2)) + 2/2) \\
&:= 33/3 + (3 \times (3^3 \times (33 + 3))) \\
&:= 444/4 + (4 \times 4 \times 4 \times 44) \\
&:= 5 + (((5 - 5^5)/(5 + 5 + 5)) + 5^5) + 5 \\
&:= 66/6 + (((66 - 6 - 6)^{(6+6)/6}) \\
&:= 7/7 + (77 \times (7 \times 7 - 77/7)) \\
&:= 888/8 + (88 \times ((8 + 8 + 8) + 8)) \\
&:= 99/9 + 9 \times (9 + 9) \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2928 &:= (1 + 1) \times ((1 + 11) \times (1 + 11^{1+1})) \\
&:= (2 + 2 + 2) \times (22^2 + 2 + 2) \\
&:= (3/3 + 3) \times (3^{3+3} + 3) \\
&:= 4 \times ((4 \times (4 \times 44 - 4)) + 44) \\
&:= 5^5 - (((5/5 + 5) \times ((5 + 5)/5)^5) + 5) \\
&:= 6 + (((66 - 6 - 6)^{(6+6)/6}) + 6) \\
&:= (7 + 7)/7 + (77 \times (7 \times 7 - 77/7)) \\
&:= (8 + 8) \times ((888/8 + 8 \times 8) + 8) \\
&:= ((99 + 9)/9) + 9 \times (9 + 9) \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2929 &:= 1 + ((1 + 1) \times ((1 + 11) \times (1 + 11^{1+1}))) \\
&:= 2/2 + ((2 + 2 + 2) \times (22^2 + 2 + 2)) \\
&:= 3/3 + ((3/3 + 3) \times (3^{3+3} + 3)) \\
&:= 4 + ((44 + 4/4) \times (4^4 + 4)/4) \\
&:= 5 + (((5 + 5) \times (5 - 5 \times 5)) - 5/5) + 5^5 \\
&:= 6 + (((66 - 6 - 6)^{(6+6)/6}) + 6/6) + 6) \\
&:= 7 \times (7 \times 7 \times 7 + 77) - 77/7 \\
&:= 8 + (((8 - 8/8 + 8) + 8) \times (8 \times (8 + 8) - 8/8)) \\
&:= 9 \times (9 + 9) \times (9 + 9) + ((99 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2930 &:= (1 + 1) \times (1 + ((1 + 11) \times (1 + 11^{1+1}))) \\
&:= 2 + ((2 + 2 + 2) \times (22^2 + 2 + 2)) \\
&:= 3 + ((3 \times (3^3 \times (33 + 3))) + 33/3) \\
&:= 4 + (44/4 \times ((44 - 4)/4 + 4^4)) \\
&:= 5 + (((5 + 5) \times (5 - 5 \times 5)) + 5^5) \\
&:= 6 + (((6 \times 6 + 6/6) + 6) \times (((6 + 6)/6) + 66)) \\
&:= ((7 - 77)/7) + 7 \times (7 \times 7 \times 7 + 77) \\
&:= 8 + (((8 - 8888)/8) + (8 \times (8 \times 8 \times 8 - 8))) \\
&:= 9 \times 99 + (((9 + 9)/9)^{99/9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2931 &:= 1 + ((1 + 1) \times (1 + ((1 + 11) \times (1 + 11^{1+1})))) \\
&:= 2 + (((2 + 2 + 2) \times (22^2 + 2 + 2)) + 2/2) \\
&:= 3 + ((3/3 + 3) \times (3^{3+3} + 3)) \\
&:= 4 + ((4 \times 4 \times 4 \times 44) + 444/4) \\
&:= 5 + (((55 - 5/5)^{(5+5)/5}) + 5) + 5) \\
&:= 6 + ((6/6 - 66) \times (66 - 666/6)) \\
&:= 7 \times (7 \times 7 \times 7 + 77) - ((7 + 7)/7 + 7) \\
&:= (88/8 - 8) \times (((88 \times 88 + 8)/8) + 8) \\
&:= 9 + ((9 \times (9 + 9) \times (9 + 9) - ((9 + 9 + 9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2932 &:= (1 + 1) \times (1 + (1 + ((1 + 11) \times (1 + 11^{1+1})))) \\
&:= 2 \times (((2 + 2 + 2)^2 + 2)^2 + 22) \\
&:= (3/3 + 3) \times ((3^{3+3} + 3/3) + 3) \\
&:= 4 + (4 \times ((4 \times (4 \times 44 - 4)) + 44)) \\
&:= 55 + (5^5 - (((5 - (5 + 5)/5)^5) + 5)) \\
&:= 6 + (((6 + 6)/6 + 6 \times 6) \times (66/6 + 66)) \\
&:= 7 \times (7 \times 7 \times 7 + 77) - (7/7 + 7) \\
&:= 8 + (((8 - 88)/8 + 8 \times 8)^{(8+8)/8}) + 8) \\
&:= 9 + ((9 \times (9 + 9) \times (9 + 9) - ((9 + 9)/9)) + 9)
\end{aligned}$$

- ▶ 2933 := $1 + ((1 + 1) \times (1 + (1 + ((1 + 11) \times (1 + 11^{1+1}))))))$
:= $2/2 + (2 \times ((2 + 2 + 2)^2 + 2)^2 + 22)$
:= $3 \times 3 \times 333 - ((3/3 + 3)^3)$
:= $(44/4 \times (44/4 + 4^4)) - 4$
:= $5^5 - ((5/5 + 5) \times ((5 + 5)/5)^5)$
:= $6 + (((66 - 6 - 6)^{(6+6)/6}) + (66/6))$
:= $7 \times (7 \times 7 \times 7 + 77) - 7$
:= $((8 + 8) \times ((88 + 88) + 8)) - 88/8$
:= $9 + ((9 \times (9 + 9) \times (9 + 9) - 9/9) + 9)$
- ▶ 2934 := $(1 + 1) \times (11 + ((1 + 1 + 11) \times (1 + 111)))$
:= $2 + (2 \times ((2 + 2 + 2)^2 + 2)^2 + 22)$
:= $3 \times (((3^3 \times (33 + 3)) + 3) + 3)$
:= $4 + ((44/4 \times ((44 - 4)/4 + 4^4)) + 4)$
:= $5^5 - ((555/5 + 55) + 5 \times 5)$
:= $((6 - 6/6) \times 666) - 6 \times 66$
:= $7/7 + (7 \times (7 \times 7 \times 7 + 77) - 7)$
:= $888 + ((8 \times (8 + 8) \times (8 + 8)) - ((8 + 8)/8))$
:= $9 + (9 \times (9 + 9) \times (9 + 9) + 9)$
- ▶ 2935 := $1 + ((1 + 1) \times (11 + ((1 + 1 + 11) \times (1 + 111))))$
:= $2^{22/2} + 2 \times 2 \times 222 - 2/2$
:= $3 + ((3/3 + 3) \times ((3^{3+3} + 3/3) + 3))$
:= $((4 + 4) \times (444/4 + 4^4)) - 4/4$
:= $5 \times (((5 + 5)/5)^5 + 555)$
:= $6/6 + (((6 - 6/6) \times 666) - 6 \times 66)$
:= $(7 + 7)/7 + (7 \times (7 \times 7 \times 7 + 77) - 7)$
:= $888 + ((8 \times (8 + 8) \times (8 + 8)) - 8/8)$
:= $9 + ((9 \times (9 + 9) \times (9 + 9) + 9/9) + 9)$
- ▶ 2936 := $(1 + 1) \times (((1 + 1 + 11) \times (1 + 1 + 111)) - 1)$
:= $2^{22/2} + 2 \times 2 \times 222$
:= $3 + (3 \times 3 \times 333 - ((3/3 + 3)^3))$
:= $(4 + 4) \times (444/4 + 4^4)$
:= $5 \times 5 + (((55 - 5/5)^{(5+5)/5}) - 5)$
:= $((6 + 6)/6 + 6) \times ((6 \times (66 - 6) + 6/6) + 6)$
:= $7 + (7 \times (7 \times 7 \times 7 + 77) - (77/7))$
:= $888 + (8 \times (8 + 8) \times (8 + 8))$
:= $9 + (9 \times (9 + 9) \times (9 + 9) + (99/9))$
- ▶ 2937 := $11 \times (1 + ((1 + 1) \times (1 + (11 \times (1 + 11))))))$
:= $(2/2 + 2) \times (2 \times 22^2 + 22/2)$
:= $33 \times ((3 \times (3^3 + 3)) - 3/3)$
:= $44/4 \times (44/4 + 4^4)$
:= $55 + (5^5 - ((5 - (5 + 5)/5)^5))$
:= $(6666 \times 6/(6 + 6)) - 6 \times 66$
:= $77/7 + (77 \times (7 \times 7 - 77/7))$
:= $8/8 + ((8 \times (8 + 8) \times (8 + 8)) + 888)$
:= $9 + (9 \times (9 + 9) \times (9 + 9) + ((99 + 9)/9))$
- ▶ 2938 := $(1 + 1) \times ((1 + 1 + 11) \times (1 + 1 + 111))$
:= $22 + ((2 + 2 + 2) \times (22^2 + 2))$
:= $3/3 + (33 \times ((3 \times (3^3 + 3)) - 3/3))$
:= $4/4 + (44/4 \times (44/4 + 4^4))$
:= $5 + (5^5 - ((5/5 + 5) \times ((5 + 5)/5)^5))$
:= $(6/6 + 6 + 6) \times (((66 - 6)/6) + 6 \times 6 \times 6)$
:= $7 \times (7 \times 7 \times 7 + 77) - (7 + 7)/7$
:= $888 + ((8 \times (8 + 8) \times (8 + 8)) + ((8 + 8)/8))$
:= $((9 + 9)/9) \times (9 \times 9 \times (9 + 9) + (99/9))$
- ▶ 2939 := $1 + ((1 + 1) \times ((1 + 1 + 11) \times (1 + 1 + 111)))$
:= $2 + ((2/2 + 2) \times (2 \times 22^2 + 22/2))$
:= $3^3 + ((3/3 + 3) \times (3^{3+3} - 3/3))$
:= $(44 \times (4 - 4/4)^4) - (4/4 + 4)^4$
:= $5 \times 5 + (55 \times 55 - 555/5)$
:= $((6 \times 6 + 6) \times (((6 + 6)/6)^6 + 6)) - 6/6$
:= $7 \times (7 \times 7 \times 7 + 77) - 7/7$
:= $8 + ((88/8 - 8) \times (((88 \times 88 + 8)/8) + 8))$
:= $9 \times 99 + (((9 + 9)/9)^{99/9})$
- ▶ 2940 := $(1 + 11) \times (1 + ((1 + 1) \times (1 + 11^{1+1})))$
:= $(2 + 2 + 2) \times ((22^2 + 2 + 2) + 2)$
:= $(3/3 + 3) \times ((3^{3+3} + 3) + 3)$
:= $(4 - 4/4) \times (4 \times 4^4 - 44)$
:= $5^5 - ((5 \times 5 \times 5 + 55) + 5)$
:= $(6 \times 6 + 6) \times (((6 + 6)/6)^6 + 6)$
:= $7 \times (7 \times 7 \times 7 + 77)$
:= $88 + (((8 \times (8 \times 88 + 8)) + 8)/(8 + 8)/8)$
:= $(99 - 9/9) \times (((99 + 9)/9) + 9) + 9$
- ▶ 2941 := $1 + ((1 + 11) \times (1 + ((1 + 1) \times (1 + 11^{1+1}))))$
:= $2/2 + ((2 + 2 + 2) \times ((22^2 + 2 + 2) + 2))$
:= $3/3 + ((3/3 + 3) \times ((3^{3+3} + 3) + 3))$
:= $4 + (44/4 \times (44/4 + 4^4))$
:= $5 \times 5 + ((55 - 5/5)^{(5+5)/5})$
:= $6/6 + ((6 \times 6 + 6) \times (((6 + 6)/6)^6 + 6))$
:= $7/7 + 7 \times (7 \times 7 \times 7 + 77)$
:= $8 + (((8 + 8) \times ((88 + 88) + 8)) - (88/8))$
:= $((9 - 9/9) + 9) \times (99/9 + 9 \times (9 + 9))$
- ▶ 2942 := $((111 - 1 - 1) \times (1 + 1 + 1)^{1+1+1}) - 1$
:= $((2 \times 22) + 2) \times 2^{2+2+2} - 2$
:= $33 \times (3 + 3) + ((33/3 + 3)^3)$
:= $(4 \times (4 \times ((4 \times 44 + 4) + 4))) - (4 + 4)/4$
:= $5 + (55 - ((5 - (5 + 5)/5)^5)) + 5^5$
:= $(6 + 6)/6 + ((6 \times 6 + 6) \times (((6 + 6)/6)^6 + 6))$
:= $(7 + 7)/7 + 7 \times (7 \times 7 \times 7 + 77)$
:= $((8 + 8) \times ((88 + 88) + 8)) - (8 + 8)/8$
:= $9 + (((9 \times (9 + 9) \times (9 + 9) - 9/9) + 9) + 9)$
- ▶ 2943 := $(111 - 1 - 1) \times (1 + 1 + 1)^{1+1+1}$
:= $((2 \times 22) + 2) \times 2^{2+2+2} - 2/2$
:= $3 \times (3 \times (333 - (3 + 3)))$
:= $(4 \times (4 \times ((4 \times 44 + 4) + 4))) - 4/4$
:= $5^5 - ((5 \times 5 \times 5 + ((5 + 5)/5)) + 55)$
:= $6 + ((6666 \times 6/(6 + 6)) - 6 \times 66)$
:= $(7 + 7 + 7)/7 + 7 \times (7 \times 7 \times 7 + 77)$
:= $((8 + 8) \times ((88 + 88) + 8)) - 8/8$
:= $9 + ((9 \times (9 + 9) \times (9 + 9) + 9) + 9)$
- ▶ 2944 := $1 + ((111 - 1 - 1) \times (1 + 1 + 1)^{1+1+1})$
:= $((2 \times 22) + 2) \times 2^{2+2+2}$
:= $3/3 + (3 \times (3 \times (333 - (3 + 3))))$
:= $4 \times (4 \times ((4 \times 44 + 4) + 4))$
:= $5^5 - ((5 \times 5 \times 5 + 55) + 5/5)$
:= $((6 + 6)/6)^6 \times (((66 - 6)/6) + 6 \times 6)$
:= $77/7 + (7 \times (7 \times 7 \times 7 + 77) - 7)$
:= $(8 + 8) \times ((88 + 88) + 8)$
:= $9 + (((9 \times (9 + 9) \times (9 + 9) + 9/9) + 9) + 9)$
- ▶ 2945 := $1 + (1 + ((111 - 1 - 1) \times (1 + 1 + 1)^{1+1+1}))$
:= $2/2 + (((2 \times 22) + 2) \times 2^{2+2+2})$
:= $3 + (((33/3 + 3)^3) + 33 \times (3 + 3))$
:= $4/4 + (4 \times (4 \times ((4 \times 44 + 4) + 4)))$
:= $5^5 - (5 \times 5 \times 5 + 55)$
:= $(6 \times (6 - 6 \times 6)) + ((6 - 6/6)^{6-6/6})$
:= $7 + (7 \times (7 \times 7 \times 7 + 77) - ((7 + 7)/7))$
:= $8/8 + ((8 + 8) \times ((88 + 88) + 8))$
:= $9 + ((9 \times (9 + 9) \times (9 + 9) + (99/9)) + 9)$
- ▶ 2946 := $(1 + 1) \times ((11 \times (1 + 11)^{1+1}) - 111)$
:= $2 + (((2 \times 22) + 2) \times 2^{2+2+2})$
:= $3 + (3 \times (3 \times (333 - (3 + 3))))$
:= $(4 + 4)/4 + (4 \times (4 \times ((4 \times 44 + 4) + 4)))$
:= $5^5 + (5/5 - (5 \times 5 \times 5 + 55))$
:= $((6 + 6) \times (6 \times (6 \times 6 + 6) - 6)) - 6$
:= $7 + (7 \times (7 \times 7 \times 7 + 77) - 7/7)$
:= $(8 + 8)/8 + ((8 + 8) \times ((88 + 88) + 8))$
:= $999/9 + (9 \times ((9 + 9) \times (9 + 9) - 9))$
- ▶ 2947 := $((1 + 1) \times (11 \times (1 + (1 + (11 \times (1 + 11)))))) - 1$
:= $(22 \times (22 \times (2 + 2 + 2) + 2)) - 2/2$
:= $3 + ((3 \times (3 \times (333 - (3 + 3)))) + 3/3)$
:= $(44 \times (((4^4 - 4)/4) + 4)) - 4/4$
:= $5^5 + ((5 + 5)/5 - (5 \times 5 \times 5 + 55))$
:= $6/6 + (((6 + 6) \times (6 \times (6 \times 6 + 6) - 6)) - 6)$
:= $7 + 7 \times (7 \times 7 \times 7 + 77)$
:= $888 + ((8 \times (8 + 8) \times (8 + 8)) + (88/8))$
:= $9 + (9 \times (9 + 9) \times (9 + 9) + ((99 + 99)/9))$

$$\begin{aligned}
\blacktriangleright 2948 &:= (1+1) \times (11 \times (1+(1+(11 \times (1+11)))))) \\
&:= 22 \times (22 \times (2+2+2)+2) \\
&:= 33 + ((3 \times (3^3 \times (33+3))) - 3/3) \\
&:= 44 \times (((4^4 - 4)/4) + 4) \\
&:= 5^5 - (((555+55)/5) + 55) \\
&:= (66+6/6) \times (((6+6)/6+6 \times 6) + 6) \\
&:= 7 + (7 \times (7 \times 7 \times 7 + 77) + 7/7) \\
&:= 88 + ((8/8+8 \times 8) \times (88/((8+8)/8))) \\
&:= 9 + (((9+9)/9)^{99/9}) + 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2949 &:= 11 \times 111 + ((1+11)^{1+1+1}) \\
&:= 2/2 + (22 \times (22 \times (2+2+2)+2)) \\
&:= 33 + (3 \times (3^3 \times (33+3))) \\
&:= 4/4 + (44 \times (((4^4 - 4)/4) + 4)) \\
&:= 5^5 - ((5 \times (5 \times 5 + 5) + 5) + 5/5) \\
&:= 66 + ((66 \times (6 \times 6 + 6) + 666/6) \\
&:= 7 + (7 \times (7 \times 7 \times 7 + 77) + ((7+7)/7)) \\
&:= 8 + (((8+8) \times ((88+88) + 8)) - (88/8) + 8) \\
&:= 9 + ((99 - 9/9) \times (((99+9)/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2950 &:= 1 + (11 \times 111 + ((1+11)^{1+1+1})) \\
&:= 2 + (22 \times (22 \times (2+2+2)+2)) \\
&:= 3/3 + ((3 \times (3^3 \times (33+3))) + 33) \\
&:= (4+4)/4 + (44 \times (((4^4 - 4)/4) + 4)) \\
&:= (5+5) \times ((5 \times (55+5)) - 5) \\
&:= ((6+6) \times (6 \times (6 \times 6 + 6) - 6)) - (6+6)/6 \\
&:= 777 + (((7+7+7)/7)^7 - (7+7)) \\
&:= 8 + (((8+8) \times ((88+88) + 8)) - (8+8)/8) \\
&:= 9 + (((9-9/9) + 9) \times (99/9 + 9 \times (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2951 &:= (1+1+11) \times (1+((1+1) \times (1+1+11))) \\
&:= 2222 + ((2/2+2)^{2+2+2}) \\
&:= (3+3)^3 + (((33/3+3)^3) - 3 \times 3) \\
&:= 4 + ((44 \times (((4^4 - 4)/4) + 4)) - 4/4) \\
&:= 5^5 + (5/5 - (5 \times (5 \times 5 + 5) + 5)) \\
&:= ((6+6) \times (6 \times (6 \times 6 + 6) - 6)) - 6/6 \\
&:= 77/7 + 7 \times (7 \times 7 \times 7 + 77) \\
&:= 8 + (((8+8) \times ((88+88) + 8)) - 8/8) \\
&:= (9+9) \times (((9+9)/9) + 9 \times (9+9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2952 &:= (1+1) \times ((1+11) \times (1+(1+11^{1+1}))) \\
&:= (22+2) \times ((22/2)^2 + 2) \\
&:= 3 \times ((3 \times (333 - (3+3))) + 3) \\
&:= 4 + (44 \times (((4^4 - 4)/4) + 4)) \\
&:= 5^5 + ((5+5)/5 - (5 \times (5 \times 5 + 5) + 5)) \\
&:= (6+6) \times (6 \times (6 \times 6 + 6) - 6) \\
&:= (7 - 7/7) \times (7 \times (77 - 7) + ((7+7)/7)) \\
&:= 8 + ((8+8) \times ((88+88) + 8)) \\
&:= (9+9) \times (((9+9)/9) + 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2953 &:= 1 + ((1+1) \times ((1+11) \times (1+(1+11^{1+1})))) \\
&:= 2/2 + ((22+2) \times ((22/2)^2 + 2)) \\
&:= 3/3 + (3 \times ((3 \times (333 - (3+3))) + 3)) \\
&:= 4 + ((44 \times (((4^4 - 4)/4) + 4)) + 4/4) \\
&:= 5^5 - (((555+5)/5 + 55) + 5) \\
&:= 6/6 + ((6+6) \times (6 \times (6 \times 6 + 6) - 6)) \\
&:= 7 + ((7 \times (7 \times 7 \times 7 + 77) - 7/7) + 7) \\
&:= 8 + (((8+8) \times ((88+88) + 8)) + 8/8) \\
&:= 9/9 + ((9+9) \times (((9+9)/9) + 9 \times (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2954 &:= (1+1) \times (1+((1+11) \times (1+(1+11^{1+1})))) \\
&:= 2 + ((22+2) \times ((22/2)^2 + 2)) \\
&:= (3+3)^3 + (((33/3+3)^3) - (3+3)) \\
&:= 4 + ((44 \times (((4^4 - 4)/4) + 4)) + (4+4)/4) \\
&:= 5^5 - ((555/5 + 55) + 5) \\
&:= (6+6)/6 + ((6+6) \times (6 \times (6 \times 6 + 6) - 6)) \\
&:= 7 + (7 \times (7 \times 7 \times 7 + 77) + 7) \\
&:= 8 + (((8+8) \times ((88+88) + 8)) + ((8+8)/8)) \\
&:= 9 + (((9 \times (9+9) \times (9+9) + (99/9)) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2955 &:= 1 + ((1+1) \times (1+((1+11) \times (1+(1+11^{1+1})))))) \\
&:= 2 + (((22+2) \times ((22/2)^2 + 2)) + 2/2) \\
&:= (3 \times (3 \times 333 - 3)) - 33 \\
&:= 44/4 + (4 \times (4 \times ((4 \times 44 + 4) + 4))) \\
&:= 5 + ((5+5) \times ((5 \times (55+5)) - 5)) \\
&:= 666/6 + (6 \times ((6 \times (66+6+6) + 6)) \\
&:= 7 + ((7 \times (7 \times 7 \times 7 + 77) + 7/7) + 7) \\
&:= 88/8 + ((8+8) \times ((88+88) + 8)) \\
&:= 9 + ((9 \times ((9+9) \times (9+9) - 9)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2956 &:= (1+1) \times (1+(1+((1+11) \times (1+(1+11^{1+1})))))) \\
&:= 2 + (((22+2) \times ((22/2)^2 + 2)) + 2) \\
&:= 3/3 + ((3 \times (3 \times 333 - 3)) - 33) \\
&:= 4 \times 4^4 + (44 \times 44 - 4) \\
&:= 5 + ((5/5 - (5 \times (5 \times 5 + 5) + 5)) + 5^5) \\
&:= 6 + (((6+6) \times (6 \times (6 \times 6 + 6) - 6)) - ((6+6)/6)) \\
&:= 7 + ((7 \times (7 \times 7 \times 7 + 77) + ((7+7)/7)) + 7) \\
&:= ((88+8)/8) + ((8+8) \times ((88+88) + 8)) \\
&:= ((9+9)/9) \times ((9 \times 9 \times (9+9) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2957 &:= ((1+1+1) \times ((1+1)^{11-1} - 1)) - (1+111) \\
&:= (2 \times 22)^2 + (((22^{22/2} - 2)/2) - 2) \\
&:= (3+3)^3 + (((33/3+3)^3) - 3) \\
&:= 4/4 + ((44 \times 44 - 4) + 4 \times 4^4) \\
&:= 5^5 + (((5+5)/5 + 5) \times (5/5 - 5 \times 5)) \\
&:= 6 + (((6+6) \times (6 \times (6 \times 6 + 6) - 6)) - 6/6) \\
&:= 777 + (((7+7+7)/7)^7 - 7) \\
&:= ((8 \times 8 - 8) \times (8 \times 8 - 88/8)) - 88/8 \\
&:= 9 + (((9+9)/9)^{99/9}) + 9 \times 99 + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2958 &:= ((1+1+1) \times ((1+1)^{11-1} - 1)) - 111 \\
&:= 2 \times ((2 \times (22 - 2))^2 - (22/2)^2) \\
&:= (3 \times ((3 \times (333 - 3)) - 3)) - 3 \\
&:= 4 \times 4^4 + (44 \times 44 - (4+4)/4) \\
&:= 5^5 - ((555+5)/5 + 55) \\
&:= 6 + ((6+6) \times (6 \times (6 \times 6 + 6) - 6)) \\
&:= 7 + (7 \times (7 \times 7 \times 7 + 77) + (77/7)) \\
&:= ((8+8)/8) \times ((8/8+8+8) \times (88 - 8/8)) \\
&:= (99/9 + 9 + 9) \times (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2959 &:= 11 \times (1+((1+1) \times (1+(1+(11 \times (1+11)))))) \\
&:= (2 \times 22)^2 + ((2^{22/2} - 2)/2) \\
&:= (3 \times (3 \times (333 - 3))) - 33/3 \\
&:= 4 \times 4^4 + (44 \times 44 - 4/4) \\
&:= 5^5 - (555/5 + 55) \\
&:= 6 + (((6+6) \times (6 \times (6 \times 6 + 6) - 6)) + 6/6) \\
&:= 77/7 \times ((7 \times 7 \times 77 - 7)/(7+7)) \\
&:= 8 + (((8+8) \times ((88+88) + 8)) - 8/8) + 8 \\
&:= 999 + ((99 - 9/9) \times (99/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2960 &:= (11-1) \times ((11 \times (1+1+1)^{1+1+1}) - 1) \\
&:= 2 \times (2 \times (2^{2 \times (2+2)} + 22^2)) \\
&:= (3+3)^3 + ((33/3+3)^3) \\
&:= 4 \times 4^4 + 44 \times 44 \\
&:= 5^5 + (55 \times ((5+5)/5 - 5)) \\
&:= (6 \times ((6+6) \times (6 \times 6 + 6))) - ((6+6)/6)^6 \\
&:= (7 \times ((77 \times 77 - 7)/(7+7))) - 7/7 \\
&:= 8 + (((8+8) \times ((88+88) + 8)) + 8) \\
&:= (9/9 + 9) \times ((99 \times (9+9+9) - 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2961 &:= ((1+1+1) \times (1+1)^{11-1}) - 111 \\
&:= (2 \times 22)^2 + ((2^{22/2} + 2)/2) \\
&:= 3 \times ((3 \times (333 - 3)) - 3) \\
&:= 4/4 + (44 \times 44 + 4 \times 4^4) \\
&:= 5^5 + (555/5 - 5 \times 55) \\
&:= (66/6 + 6 \times 6) \times (66 - (6 \times 6/(6+6))) \\
&:= 7 \times ((77 \times 77 - 7)/(7+7)) \\
&:= (8 - 8/8) \times (8 \times 8 \times 8 - (8/8+88)) \\
&:= 9 + ((9+9) \times (((9+9)/9) + 9 \times (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2962 &:= 1 + (((1+1+1) \times (1+1)^{11-1}) - 111) \\
&:= 2 + ((2^{2 \times (2+2)+2}) + (2 \times 22)^2) \\
&:= 3/3 + (3 \times ((3 \times (333 - 3)) - 3)) \\
&:= (4+4)/4 + (44 \times 44 + 4 \times 4^4) \\
&:= 5^5 + ((555+5)/5 - 5 \times 55) \\
&:= ((66 - 6)/6) + ((6+6) \times (6 \times (6 \times 6 + 6) - 6)) \\
&:= 7/7 + (7 \times ((77 \times 77 - 7)/(7+7))) \\
&:= ((8 - 888)/8) + (8 \times (8 \times (8 \times 8 - (8+8)))) \\
&:= 9 + (((9+9) \times (((9+9)/9) + 9 \times (9+9))) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2963 &:= ((1+1) \times ((1+1)^{11} - 11)) - 1111 \\
&:= 2 + (((2^{22/2} + 2)/2) + (2 \times 22)^2) \\
&:= 3 + (((33/3 + 3)^3) + (3 + 3)^3) \\
&:= 4 + ((44 \times 44 - 4/4) + 4 \times 4^4) \\
&:= 5 + (5^5 - ((555 + 5)/5 + 55)) \\
&:= 66/6 + ((6 + 6) \times (6 \times (6 \times 6 + 6) - 6)) \\
&:= 777 + (((7 + 7 + 7)/7)^7 - 7/7) \\
&:= (8888 + 8/8)/(88/8 - 8) \\
&:= 99/9 + ((9 + 9) \times ((9 + 9)/9) + 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2964 &:= (1+1) \times ((1+1+11) \times (1+1+1+111)) \\
&:= 2 \times ((2 \times (2^{2 \times (2+2)} + 22^2)) + 2) \\
&:= 3 \times 3 \times 333 - 33 \\
&:= 4 + (44 \times 44 + 4 \times 4^4) \\
&:= 5 + (5^5 - (555/5 + 55)) \\
&:= 6 + (((6 + 6) \times (6 \times (6 \times 6 + 6) - 6)) + 6) \\
&:= 777 + ((7 + 7 + 7)/7)^7 \\
&:= ((88 + 8)/8) \times ((8 + 8) \times (8 + 8) - (8/8 + 8)) \\
&:= (9 + 9 + 9)/9 \times (999 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2965 &:= 1 + ((1+1) \times ((1+1+11) \times (1+1+1+111))) \\
&:= ((22 + 2/2) \times ((2^{2 \times (2+2)} + 2)/2)) - 2 \\
&:= 3/3 + (3 \times 3 \times 333 - 33) \\
&:= 4 + ((44 \times 44 + 4 \times 4^4) + 4/4) \\
&:= 5^5 - (5 \times ((5 + 5)/5)^5) \\
&:= 6 + (((6 + 6) \times (6 \times (6 \times 6 + 6) - 6)) + 6/6 + 6) \\
&:= (77 \times 77 + 7/7)/(7 + 7)/7 \\
&:= (8/8 - (8888 + 8))/(8 - 88/8) \\
&:= 9 \times (9 + 9) \times (9 + 9) + ((9 \times 99 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2966 &:= ((1+1+1) \times ((11-1)^{1+1+1} - 11)) - 1 \\
&:= 22 + (((2 \times 22) + 2) \times 2^{2+2+2}) \\
&:= (3 \times (3 \times (333 - 3))) - (3/3 + 3) \\
&:= ((44 + 4/4) \times ((4^4 + 4 + 4)/4)) - 4 \\
&:= 5^5 + (5/5 - (5 \times ((5 + 5)/5)^5)) \\
&:= 6 + ((6 \times ((6 + 6) \times (6 \times 6 + 6))) - ((6 + 6)/6)^6) \\
&:= 7 + (77/7 \times ((7 \times 7 \times 77 - 7)/(7 + 7))) \\
&:= ((8 \times 8 - 8) \times (8 \times 8 - 88/8)) - (8 + 8)/8 \\
&:= 999 + (((9 + 9)/9)^{99/9}) - 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2967 &:= (1+1+1) \times ((11-1)^{1+1+1} - 11) \\
&:= (22 + 2/2) \times ((2^{2 \times (2+2)} + 2)/2) \\
&:= (3 \times (3 \times (333 - 3))) - 3 \\
&:= (44 - 4/4) \times ((4^4 + 4)/4 + 4) \\
&:= 5^5 + ((5 + 5)/5 - (5 \times ((5 + 5)/5)^5)) \\
&:= ((6 \times 6 + 6/6) + 6) \times (6 \times 6/(6 + 6) + 66) \\
&:= ((7/7 - 7) + 7 \times 7) \times (77 - (7/7 + 7)) \\
&:= ((8 - 8/8 + 8) + 8) \times (8 \times (8 + 8) + 8/8) \\
&:= (9 + 9 + 9)/9 \times (999 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2968 &:= 1 + ((1+1+1) \times ((11-1)^{1+1+1} - 11)) \\
&:= 2 \times (2 \times ((2^{2 \times (2+2)} + 22^2) + 2)) \\
&:= 3/3 + ((3 \times (3 \times (333 - 3))) - 3) \\
&:= 4 + ((44 \times 44 + 4 \times 4^4) + 4) \\
&:= 5^5 - (((5 + 5)/5)^5 + 5 \times 5 \times 5) \\
&:= (6/6 + 6) \times (6 \times (66 - 6) + ((6 + 6)/6)^6) \\
&:= 7 \times ((77 \times 77 + 7)/(7 + 7)) \\
&:= (8 \times 8 - 8) \times (8 \times 8 - 88/8) \\
&:= ((9 + 9)/9) \times ((9 \times (99 + 9)) + (((9 + 9)/9)^9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2969 &:= ((111 - 1) \times (1 + 1 + 1)^{1+1+1}) - 1 \\
&:= 2 + ((22 + 2/2) \times ((2^{2 \times (2+2)} + 2)/2)) \\
&:= (3 \times (3 \times (333 - 3))) - 3/3 \\
&:= 44 + ((44 + 4/4) \times (4^4 + 4)/4) \\
&:= 5^5 + ((5^5 - 5)/(5 - 5 \times 5)) \\
&:= (66 \times (666/6 - 66)) - 6/6 \\
&:= 7/7 + (7 \times ((77 \times 77 + 7)/(7 + 7))) \\
&:= 8/8 + ((8 \times 8 - 8) \times (8 \times 8 - 88/8)) \\
&:= (99 \times (((99 + 9)/9) + 9) + 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2970 &:= (111 - 1) \times (1 + 1 + 1)^{1+1+1} \\
&:= 22 \times (222/2 + 22 + 2) \\
&:= 3 \times (3 \times (333 - 3)) \\
&:= (44 + 4/4) \times ((4^4 + 4 + 4)/4) \\
&:= 55 \times (55 - 5/5) \\
&:= 66 \times (666/6 - 66) \\
&:= 77/7 \times ((7 \times 7 \times 77 + 7)/(7 + 7)) \\
&:= (88/8 + 8 + 8) \times (888 - 8)/8 \\
&:= 99 \times (((99 + 9)/9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2971 &:= 1 + ((111 - 1) \times (1 + 1 + 1)^{1+1+1}) \\
&:= 2/2 + (22 \times (222/2 + 22 + 2)) \\
&:= 3/3 + (3 \times (3 \times (333 - 3))) \\
&:= 4 + ((44 - 4/4) \times ((4^4 + 4)/4 + 4)) \\
&:= 5/5 + (55 \times (55 - 5/5)) \\
&:= 6/6 + (66 \times (666/6 - 66)) \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 777) \\
&:= 8 + ((8888 + 8/8)/(88/8 - 8)) \\
&:= 9/9 + (99 \times (((99 + 9)/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2972 &:= 1 + (1 + ((111 - 1) \times (1 + 1 + 1)^{1+1+1})) \\
&:= 2 + (22 \times (222/2 + 22 + 2)) \\
&:= 3 + ((3 \times (3 \times (333 - 3))) - 3/3) \\
&:= (((4 + 4) + 4) \times (4^4 - 4 - 4)) - 4 \\
&:= (5 + 5)/5 + (55 \times (55 - 5/5)) \\
&:= (6 + 6)/6 + (66 \times (666/6 - 66)) \\
&:= 7 + ((77 \times 77 + 7/7)/(7 + 7)/7) \\
&:= 8 + (((88 + 8)/8) \times ((8 + 8) \times (8 + 8) - (8/8 + 8))) \\
&:= (9 + 9)/9 + (99 \times (((99 + 9)/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2973 &:= (1 + 1 + 1) \times (1 + ((11 - 1 - 1) \times (111 - 1))) \\
&:= (2/2 + 2) \times ((2 \times 22^2 + 22) + 2/2) \\
&:= 3 + (3 \times (3 \times (333 - 3))) \\
&:= 4/4 + (((4 + 4) + 4) \times (4^4 - 4 - 4)) - 4 \\
&:= 5^5 - (5 \times (5 \times 5 + 5) + ((5 + 5)/5)) \\
&:= (6 \times (6 - 66)) + (6666 \times 6/(6 + 6)) \\
&:= 7777/7 + (7 \times (7 \times 7 \times 7 - 77)) \\
&:= (8 \times (8 \times (8 \times 8 - (8 + 8)))) - (88/8 + 88) \\
&:= ((9 + 9 + 9)/9) \times ((999 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2974 &:= ((1+1)^{1+1+1}) - (11 + 1111) \\
&:= 22 + ((22 + 2) \times ((22/2)^2 + 2)) \\
&:= 3 + ((3 \times (3 \times (333 - 3))) + 3/3) \\
&:= 4 + ((44 + 4/4) \times ((4^4 + 4 + 4)/4)) \\
&:= 5^5 - (5 \times (5 \times 5 + 5) + 5/5) \\
&:= (((6 + 6)/6)^{6+6}) - (66 \times (66/6 + 6)) \\
&:= 7 + (((7/7 - 7) + 7 \times 7) \times (77 - (7/7 + 7))) \\
&:= (8 \times 8 \times 8 \times 8) - ((8888 + 88)/8) \\
&:= 9 \times 9 + (9999/9 + (9 + 9) \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2975 &:= 1 + (((1+1)^{1+1+1}) - (11 + 1111)) \\
&:= ((22 + 2/2) + 2) \times ((22/2)^2 - 2) \\
&:= 3 + (((3 \times (3 \times (333 - 3))) - 3/3) + 3) \\
&:= (4 \times 4 + 4/4) \times (4 \times 44 - 4/4) \\
&:= 5^5 - 5 \times (5 \times 5 + 5) \\
&:= (6/6 + 6) \times ((6 \times (66 + 6)) - (6/6 + 6)) \\
&:= 7 + (7 \times ((77 \times 77 + 7)/(7 + 7))) \\
&:= (8 - 8/8) \times ((8 \times 8 \times 8 - 88) + 8/8) \\
&:= 9 \times ((9 + 9) \times (9 + 9) + 9) - ((99 + 99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2976 &:= (1 + 1) \times ((1 + 11) \times (1 + (1 + (1 + 11^{1+1})))) \\
&:= 2 \times ((22 + 2) \times (2^{2+2+2} - 2)) \\
&:= 3 + ((3 \times (3 \times (333 - 3))) + 3) \\
&:= ((4 + 4) + 4) \times (4^4 - 4 - 4) \\
&:= 5^5 + (5/5 - 5 \times (5 \times 5 + 5)) \\
&:= 6 + (66 \times (666/6 - 66)) \\
&:= (7 - 7/7) \times ((7 \times (77 - 7) - 7/7) + 7) \\
&:= 8 + ((8 \times 8 - 8) \times (8 \times 8 - 88/8)) \\
&:= 9 + (((9 + 9 + 9)/9) \times (999 - (9/9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2977 &:= 1 + ((1+1) \times ((1+11) \times (1 + (1 + (1 + 11^{1+1})))))) \\
&:= 2 + (((22 + 2/2) + 2) \times ((22/2)^2 - 2)) \\
&:= (3 \times (3 \times 333 - 3)) - 33/3 \\
&:= 4/4 + (((4 + 4) + 4) \times (4^4 - 4 - 4)) \\
&:= 5^5 + ((5 + 5)/5 - 5 \times (5 \times 5 + 5)) \\
&:= (6 \times ((6 \times (66 + 6)) + 66)) - 66/6 \\
&:= 7 + (77/7 \times ((7 \times 7 \times 77 + 7)/(7 + 7))) \\
&:= (8 \times 8 \times 8 \times 8) - (8888/8 + 8) \\
&:= 9 \times ((9 + 9) \times (9 + 9) + 9) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2978 &:= ((1 + ((1 + 1)^{1+1+1+1+1})) / 11) - 1 \\
&:= (2 \times (2 \times (22 - 2))^2) - 222 \\
&:= (3 \times ((3 \times (333 - 3)) + 3)) - 3/3 \\
&:= (4 + 4) / 4 + (((4 + 4) + 4) \times (4^4 - 4 - 4)) \\
&:= 5 + (5^5 - (5 \times (5 \times 5 + 5) + ((5 + 5) / 5))) \\
&:= 666 + (6 \times 6 \times 66 - ((6 + 6) / 6)^6) \\
&:= 7 + (((7 + 7 + 7) / 7)^7 + 777) + 7 \\
&:= 8 + ((88 / 8 + 8 + 8) \times (888 - 8) / 8) \\
&:= 9 \times (9 + 9) \times (9 + 9) + 9 - (9 / 9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2979 &:= (1 + ((1 + 1)^{1+1+1+1+1})) / 11 \\
&:= 2 / 2 + ((2 \times (2 \times (22 - 2))^2) - 222) \\
&:= 3 \times ((3 \times (333 - 3)) + 3) \\
&:= 4 + ((4 \times 4 + 4 / 4) \times (4 \times 44 - 4 / 4)) \\
&:= 5 + (5^5 - (5 \times (5 \times 5 + 5) + 5 / 5)) \\
&:= 66 \times (6 + 6) + ((6 \times 6 / (6 + 6))^{6/6+6}) \\
&:= 7 + (((77 \times 77 + 7 / 7) / ((7 + 7) / 7)) + 7) \\
&:= 88 / 8 + ((8 \times 8 - 8) \times (8 \times 8 - 88 / 8)) \\
&:= 9 \times (9 + 9) \times (9 + 9) + 9 - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2980 &:= 1 + ((1 + ((1 + 1)^{1+1+1+1+1})) / 11) \\
&:= 2 + ((2 \times (2 \times (22 - 2))^2) - 222) \\
&:= 3 / 3 + (3 \times ((3 \times (333 - 3)) + 3)) \\
&:= 4 + (((4 + 4) + 4) \times (4^4 - 4 - 4)) \\
&:= 5 + (5^5 - 5 \times (5 \times 5 + 5)) \\
&:= (6 - 6 / 6) \times (666 - (((6 + 6) / 6)^6 + 6)) \\
&:= (7 - ((7 + 7) / 7)) \times ((7 \times (77 + 7) + 7 / 7) + 7) \\
&:= 8 \times 8 + (((8 - 88) / 8 + 8 \times 8)^{(8+8)/8}) \\
&:= 9 / 9 + (9 \times ((9 + 9) \times (9 + 9) + 9) - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2981 &:= 11 + ((111 - 1) \times (1 + 1 + 1)^{1+1+1}) \\
&:= ((22 / 2 + 2 \times 22)^2) - (2 \times 22) \\
&:= 33 / 3 + (3 \times (3 \times (333 - 3))) \\
&:= ((4 + 4)^4) - (4444 / 4 + 4) \\
&:= 5 + ((5 / 5 - 5 \times (5 \times 5 + 5)) + 5^5) \\
&:= ((6 - 6 / 6)^{6-6/6}) - (6 + 6) \times (6 + 6) \\
&:= (7 \times (7 \times 7 \times 7 + 77 + 7)) - (7 / 7 + 7) \\
&:= 88 / 8 \times (((8 + 8) \times (8 + 8) - 8 / 8) + 8) + 8 \\
&:= 9 \times 9 + ((9 / 9 + 99) \times (99 / 9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2982 &:= ((1 + 1)^{1+1+1}) - (1 + (1 + (1 + 1111))) \\
&:= 22^2 + ((2 \times (22 + 2) + 2)^2 - 2) \\
&:= 3 + (3 \times ((3 \times (333 - 3)) + 3)) \\
&:= ((4 + 4)^4) + (((4 - 4444) / 4) - 4) \\
&:= 5 + (((5 + 5) / 5 - 5 \times (5 \times 5 + 5)) + 5^5) \\
&:= (6 / 6 + 6) \times ((6 \times (66 + 6)) - 6) \\
&:= (7 - 7 / 7) \times (7 \times (77 - 7) + 7) \\
&:= (8 - 8 / 8) \times ((8 \times 8 \times 8 - 88) + ((8 + 8) / 8)) \\
&:= 9 + (((9 + 9 + 9) / 9) \times ((999 - 9) + 9 / 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2983 &:= ((1 + 1)^{1+1+1}) - (1 + (1 + 1111)) \\
&:= 2 + (((22 / 2 + 2 \times 22)^2) - (2 \times 22)) \\
&:= 3 \times 3 \times 333 - (33 / 3 + 3) \\
&:= 4^4 + (((44 \times (4^4 - 4 - 4)) - 4) / 4) \\
&:= 5^5 + (((5 - 5 \times 5 \times 55) / (5 + 5)) - 5) \\
&:= 6 / 6 + ((6 / 6 + 6) \times ((6 \times (66 + 6)) - 6)) \\
&:= 7 / 7 + ((7 - 7 / 7) \times (7 \times (77 - 7) + 7)) \\
&:= (8 \times (8 \times (8 \times 8 - (8 + 8)))) - (8 / 8 + 88) \\
&:= 9 + ((9999 / 9 + (9 + 9) \times 99) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2984 &:= ((1 + 1)^{1+1+1}) - (1 + 1111) \\
&:= 2 \times (2 \times (2 \times 22^2 - 222)) \\
&:= (3 \times (3 \times 333 - 3)) - (3 / 3 + 3) \\
&:= (44 \times (4 \times 4 \times 4 + 4)) - 4 - 4 \\
&:= 5^5 - ((555 / 5 + 5 \times 5) + 5) \\
&:= (6 + 6) / 6 + ((6 / 6 + 6) \times ((6 \times (66 + 6)) - 6)) \\
&:= (7 + 7) / 7 + ((7 - 7 / 7) \times (7 \times (77 - 7) + 7)) \\
&:= (8 \times (8 \times (8 \times 8 - (8 + 8)))) - 88 \\
&:= (9 - 9 / 9) \times (((9 \times 9 \times 9 \times 9) - 9) / (9 + 9)) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2985 &:= ((1 + 1)^{1+1+1}) - 1111 \\
&:= (2^{2 \times (2+2+2)}) - 2222 / 2 \\
&:= (3 \times (3 \times 333 - 3)) - 3 \\
&:= ((4 + 4)^4) - 4444 / 4 \\
&:= 5 + ((5^5 - 5 \times (5 \times 5 + 5)) + 5) \\
&:= (((6 + 6) / 6)^{6+6}) - (6666 / 6) \\
&:= 7 \times 7 \times 77 - (77 / 7 + 777) \\
&:= (8 \times 8 \times 8 \times 8) - 8888 / 8 \\
&:= 9 \times (9 + 9) \times (9 + 9) + 9 - (99 + 9) / 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2986 &:= 1 + (((1 + 1)^{1+1+1}) - 1111) \\
&:= 2 + ((2 \times (22 + 2) + 2)^2 + 22^2) \\
&:= 3 \times 3 \times 333 - 33 / 3 \\
&:= ((4 + 4)^4) + ((4 - 4444) / 4) \\
&:= 5^5 + (55 / 5 - 5 \times (5 \times 5 + 5)) \\
&:= (6 \times ((6 \times (66 + 6)) + 66)) - (6 + 6) / 6 \\
&:= 777 + ((7 \times 7 - (7 + 7) / 7)^{(7+7)/7}) \\
&:= (8 \times 8 \times 8 \times 8) + ((8 - 8888) / 8) \\
&:= 9 \times (9 + 9) \times (9 + 9) + 9 - 99 / 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2987 &:= 1 + (1 + (((1 + 1)^{1+1+1}) - 1111)) \\
&:= 2 + ((2^{2 \times (2+2+2)}) - (2222 / 2)) \\
&:= (3 \times (3 \times 333 - 3)) - 3 / 3 \\
&:= (44 \times (4 \times 4 \times 4 + 4)) - (4 / 4 + 4) \\
&:= 5^5 - ((5 \times 5 \times 55 + 5) / (5 + 5)) \\
&:= (6 \times ((6 \times (66 + 6)) + 66)) - 6 / 6 \\
&:= (7 \times (7 \times 7 \times 7 + 77 + 7)) - (7 + 7) / 7 \\
&:= (8 \times 8 \times 8 \times 8) + (((8 - 8888) + 8) / 8) \\
&:= 9 \times (9 + 9) \times (9 + 9) + 9 - 9 / 9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2988 &:= (11 - 1 - 1) \times ((1 + 1 + 1) \times 111 - 1) \\
&:= 2 \times ((2 \times (2 \times 22^2 - 222)) + 2) \\
&:= 3 \times (3 \times 333 - 3) \\
&:= (44 \times (4 \times 4 \times 4 + 4)) - 4 \\
&:= 5^5 + ((5 - 5 \times 5 \times 55) / (5 + 5)) \\
&:= 6 \times ((6 \times (66 + 6)) + 66) \\
&:= (7 \times (7 \times 7 \times 7 + 77 + 7)) - 7 / 7 \\
&:= ((88 + 8) / 8) \times (((8 + 8) \times (8 + 8) - 8) + 8 / 8) \\
&:= 9 \times (9 + 9) \times (9 + 9) + 9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2989 &:= ((1 + 1 + 1) \times (11 - 1)^{1+1+1}) - 11 \\
&:= (2 \times (22^2 - 2)) + (2 \times 22 + 2 / 2)^2 \\
&:= 3 / 3 + (3 \times (3 \times 333 - 3)) \\
&:= 4 + (((4 + 4)^4) - 4444 / 4) \\
&:= 5^5 - (555 / 5 + 5 \times 5) \\
&:= 6 / 6 + (6 \times ((6 \times (66 + 6)) + 66)) \\
&:= 7 \times (7 \times 7 \times 7 + 77 + 7) \\
&:= (888 / 8 \times (88 / 8 + 8 + 8)) - 8 \\
&:= 9 / 9 + (9 \times (9 + 9) \times (9 + 9) + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2990 &:= 1 + (((1 + 1 + 1) \times (11 - 1)^{1+1+1}) - 11) \\
&:= 2 \times ((2 \times 22)^2 - ((22 - 2 / 2)^2)) \\
&:= 3 + ((3 \times (3 \times 333 - 3)) - 3 / 3) \\
&:= (4^4 + 4) / 4 \times ((4 + 4) / 4 + 44) \\
&:= 5^5 - ((5 \times 5 \times 5 + 5) + 5) \\
&:= (6 + 6) / 6 + (6 \times ((6 \times (66 + 6)) + 66)) \\
&:= 7 / 7 + (7 \times (7 \times 7 \times 7 + 77 + 7)) \\
&:= ((8 + 8) / 8) \times ((88 \times (8 + 8) - 8 / 8) + 88) \\
&:= (9 + 9) / 9 + (9 \times ((9 + 9) \times (9 + 9) + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2991 &:= (1 + 1 + 1) \times ((11 - 1)^{1+1+1} - (1 + 1 + 1)) \\
&:= 2 \times 22^2 + ((2 \times 22 + 2 / 2)^2 - 2) \\
&:= 3 + (3 \times (3 \times 333 - 3)) \\
&:= (44 \times (4 \times 4 \times 4 + 4)) - 4 / 4 \\
&:= 5^5 + (5 / 5 - ((5 \times 5 \times 5 + 5) + 5)) \\
&:= 6 + (((6 + 6) / 6)^{6+6}) - (6666 / 6) \\
&:= (7 + 7) / 7 + (7 \times (7 \times 7 \times 7 + 77 + 7)) \\
&:= ((8 / 8 + 8 + 8) \times (88 + 88)) - 8 / 8 \\
&:= ((9 + 9 + 9) / 9) \times (999 - ((9 + 9) / 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2992 &:= 11 \times (((1 + 1 + 11) \times (11 + (11 - 1))) - 1) \\
&:= 2 \times (2 \times (22 \times ((2 \times 2^{2+2}) + 2))) \\
&:= 3 + ((3 \times (3 \times 333 - 3)) + 3 / 3) \\
&:= 44 \times (4 \times 4 \times 4 + 4) \\
&:= 5 + (5^5 - ((5 \times 5 \times 55 + 5) / (5 + 5))) \\
&:= 6 + ((6 \times ((6 \times (66 + 6)) + 66)) - ((6 + 6) / 6)) \\
&:= 7 + (7 \times 7 \times 77 - (77 / 7 + 777)) \\
&:= (8 / 8 + 8 + 8) \times (88 + 88) \\
&:= 99 + (9999 / 9 + (9 + 9) \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2993 &:= ((1+1+1) \times ((11-1)^{1+1+1} - (1+1))) - 1 \\
&:= 2 \times 22^2 + (2 \times 22 + 2/2)^2 \\
&:= 3 \times 3 \times 333 - (3/3 + 3) \\
&:= 4/4 + (44 \times (4 \times 4 \times 4 + 4)) \\
&:= 55 \times 55 - ((5+5)/5)^5 \\
&:= 6 + ((6 \times ((6 \times (66+6)) + 66)) - 6/6) \\
&:= ((7/7 + 7 \times 7) \times (77/7 + 7 \times 7)) - 7 \\
&:= 8 + ((8 \times 8 \times 8 \times 8) - 8888/8) \\
&:= ((9-9 \times 9)/(9+9)) + 9 \times ((9+9) \times (9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2994 &:= (1+1+1) \times ((11-1)^{1+1+1} - (1+1)) \\
&:= 2 + (2 \times (2 \times (22 \times ((2 \times 2^{2+2}) + 2)))) \\
&:= 3 \times 3 \times 333 - 3 \\
&:= (4+4)/4 + (44 \times (4 \times 4 \times 4 + 4)) \\
&:= 5^5 - ((5 \times 5 \times 5 + 5/5) + 5) \\
&:= 6 + (6 \times ((6 \times (66+6)) + 66)) \\
&:= 7 \times 7 \times 77 - (((7+7)/7) + 777) \\
&:= 8 + (((8-8888)/8) + (8 \times 8 \times 8 \times 8)) \\
&:= ((9+9+9)/9) \times (999-9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2995 &:= (111 \times (1+1+1)^{1+1+1}) - 1 - 1 \\
&:= 2 + ((2 \times 22 + 2/2)^2 + 2 \times 22^2) \\
&:= 3/3 + (3 \times 3 \times 333 - 3) \\
&:= 4 + ((44 \times (4 \times 4 \times 4 + 4)) - 4/4) \\
&:= 5^5 - (5 \times 5 \times 5 + 5) \\
&:= 6 + ((6 \times ((6 \times (66+6)) + 66)) + 6/6) \\
&:= 7 \times 7 \times 77 - (777 + 7/7) \\
&:= 88/8 + ((8 \times (8 \times (8 \times 8 - (8+8)))) - 88) \\
&:= 9 \times ((9+9) \times (9+9) + 9) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2996 &:= (111 \times (1+1+1)^{1+1+1}) - 1 \\
&:= 2 \times ((2 \times (22 \times ((2 \times 2^{2+2}) + 2))) + 2) \\
&:= 3 \times 3 \times 333 - 3/3 \\
&:= 4 + (44 \times (4 \times 4 \times 4 + 4)) \\
&:= 5^5 + (5/5 - (5 \times 5 \times 5 + 5)) \\
&:= 6 + ((6 \times ((6 \times (66+6)) + 66)) + ((6+6)/6)) \\
&:= 7 \times 7 \times 77 - 777 \\
&:= (8-8/8) \times (888/((8+8)/8) - (8+8)) \\
&:= 9 \times ((9+9) \times (9+9) + 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2997 &:= 111 \times (1+1+1)^{1+1+1} \\
&:= 222/2 \times (((22+2/2) + 2) + 2) \\
&:= 3 \times 3 \times 333 \\
&:= 4 + ((44 \times (4 \times 4 \times 4 + 4)) + 4/4) \\
&:= 5^5 + ((5+5)/5 - (5 \times 5 \times 5 + 5)) \\
&:= 666/6 \times ((66 \times 6/(6+6)) - 6) \\
&:= 7/7 + (7 \times 7 \times 77 - 777) \\
&:= 888/8 \times (88/8 + 8+8) \\
&:= 9 \times ((9+9) \times (9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2998 &:= 1 + (111 \times (1+1+1)^{1+1+1}) \\
&:= 2 \times (((2 \times (22-2) - 2/2)^2) - 22) \\
&:= 3/3 + 3 \times 3 \times 333 \\
&:= 4 + ((44 \times (4 \times 4 \times 4 + 4)) + (4+4)/4) \\
&:= 5^5 - (5 \times 5 \times 5 + ((5+5)/5)) \\
&:= ((66-6)/6) + (6 \times ((6 \times (66+6)) + 66)) \\
&:= (7+7)/7 + (7 \times 7 \times 77 - 777) \\
&:= 8/8 + (888/8 \times (88/8 + 8+8)) \\
&:= 9/9 + 9 \times ((9+9) \times (9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 2999 &:= ((1+1+1) \times (11-1)^{1+1+1}) - 1 \\
&:= 2 + (222/2 \times (((22+2/2) + 2) + 2)) \\
&:= 3 + (3 \times 3 \times 333 - 3/3) \\
&:= 4 + (((44 \times (4 \times 4 \times 4 + 4)) - 4/4) + 4) \\
&:= 5^5 - (5 \times 5 \times 5 + 5/5) \\
&:= 66/6 + (6 \times ((6 \times (66+6)) + 66)) \\
&:= 777 + (((7+7)/7) \times 777/7) \\
&:= 888 + ((88 \times (8+8+8)) - 8/8) \\
&:= (9+9)/9 + 9 \times ((9+9) \times (9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3000 &:= (1+1+1) \times (11-1)^{1+1+1} \\
&:= (2+2+2) \times (2^{2+2} + 22^2) \\
&:= 3+3 \times 3 \times 333 \\
&:= 4 + ((44 \times (4 \times 4 \times 4 + 4)) + 4) \\
&:= 5^5 - 5 \times 5 \times 5 \\
&:= (6-6/6) \times (666-66) \\
&:= (7/7 + 7 \times 7) \times (77/7 + 7 \times 7) \\
&:= 888 + (88 \times (8+8+8)) \\
&:= ((9+9+9)/9) \times (999+9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3001 &:= 1 + ((1+1+1) \times (11-1)^{1+1+1}) \\
&:= ((22/2 + 2 \times 22)^2) - (22+2) \\
&:= 3 + (3 \times 3 \times 333 + 3/3) \\
&:= 4 + (((44 \times (4 \times 4 \times 4 + 4)) + 4/4) + 4) \\
&:= 5^5 + (5/5 - 5 \times 5 \times 5) \\
&:= 6/6 + ((6-6/6) \times (666-66)) \\
&:= 7 + (7 \times 7 \times 77 - (((7+7)/7) + 777)) \\
&:= 8/8 + ((88 \times (8+8+8)) + 888) \\
&:= 9/9 + (((9+9+9)/9) \times (999+9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3002 &:= 1 + (1 + ((1+1+1) \times (11-1)^{1+1+1})) \\
&:= 2 + ((2+2+2) \times (2^{2+2} + 22^2)) \\
&:= 3 + ((3 \times 3 \times 333 - 3/3) + 3) \\
&:= (44-4)/4 + (44 \times (4 \times 4 \times 4 + 4)) \\
&:= 5^5 + ((5+5)/5 - 5 \times 5 \times 5) \\
&:= (((6+6)/6)^6 \times (66/6 + 6 \times 6)) - 6 \\
&:= 7 + (7 \times 7 \times 77 - (777 + 7/7)) \\
&:= 888 + ((88 \times (8+8+8)) + ((8+8)/8)) \\
&:= ((9 \times 9 + 9)/(9+9)) + 9 \times ((9+9) \times (9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3003 &:= (1+1+1) \times (1 + (11-1)^{1+1+1}) \\
&:= ((22/2 + 2 \times 22)^2) - 22 \\
&:= 3 + (3 \times 3 \times 333 + 3) \\
&:= 44/4 + (44 \times (4 \times 4 \times 4 + 4)) \\
&:= 5^5 - ((555+55)/5) \\
&:= 666666/(6 \times 6 \times 6 + 6) \\
&:= 7 + (7 \times 7 \times 77 - 777) \\
&:= 88/8 + ((8/8 + 8+8) \times (88+88)) \\
&:= 9 + (((9+9+9)/9) \times (999-9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3004 &:= 1 + ((1+1+1) \times (1 + (11-1)^{1+1+1})) \\
&:= 2 \times (2 \times (((2/2+2)^{2+2+2}) + 22)) \\
&:= 3 + ((3 \times 3 \times 333 + 3/3) + 3) \\
&:= (4 \times (4 \times (444-4^4))) - 4 \\
&:= 5 + (5^5 - (5 \times 5 \times 5 + 5/5)) \\
&:= 666 + (6 \times (6 \times 66 - 6) - ((6+6)/6)) \\
&:= 7 + ((7 \times 7 \times 77 - 777) + 7/7) \\
&:= 88 + (((8-88)/8 + 8 \times 8)^{(8+8)/8}) \\
&:= 9 + (9 \times ((9+9) \times (9+9) + 9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3005 &:= 1 + (1 + ((1+1+1) \times (1 + (11-1)^{1+1+1}))) \\
&:= 2 + (((22/2 + 2 \times 22)^2) - 22) \\
&:= 3 \times (3 \times 333 + 3) - 3/3 \\
&:= 4/4 + ((4 \times (4 \times (444-4^4))) - 4) \\
&:= 5 + (5^5 - 5 \times 5 \times 5) \\
&:= 666 + (6 \times (6 \times 66 - 6) - 6/6) \\
&:= (7 \times 7 \times (77+7)) - 777/7 \\
&:= 8 + (888/8 \times (88/8 + 8+8)) \\
&:= 9 + (9 \times ((9+9) \times (9+9) + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3006 &:= (1+1+1) \times (1+1 + (11-1)^{1+1+1}) \\
&:= (2/2+2) \times ((2^{2 \times (2+2)+2}) - 22) \\
&:= 3 \times (3 \times 333 + 3) \\
&:= (4^4 \times ((4+4) + 4)) - ((4^4 + 4 + 4)/4) \\
&:= 5 + ((5/5 - 5 \times 5 \times 5) + 5^5) \\
&:= 666 + 6 \times (6 \times 66 - 6) \\
&:= (7-7/7) \times (7 \times (77-7) + (77/7)) \\
&:= (8 - (8+8)/8) \times (8 \times 8 \times 8 - 88/8) \\
&:= 9 + 9 \times ((9+9) \times (9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3007 &:= 1 + ((1+1+1) \times (1+1 + (11-1)^{1+1+1})) \\
&:= 2 + (((22/2 + 2 \times 22)^2) - 22) + 2) \\
&:= 3/3 + 3 \times (3 \times 333 + 3) \\
&:= (4^4 \times ((4+4) + 4)) - (4^4 + 4)/4 \\
&:= 5 + (((5+5)/5 - 5 \times 5 \times 5) + 5^5) \\
&:= 6/6 + (6 \times (6 \times 66 - 6) + 666) \\
&:= 7 + (((7/7 + 7 \times 7) \times (77/7 + 7 \times 7)) \\
&:= (8 \times (888 - 8 \times 8 \times 8)) - 8/8 \\
&:= 9 + (9 \times ((9+9) \times (9+9) + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3008 &:= 11 + (111 \times (1 + 1 + 1)^{1+1+1}) \\
&:= 2 \times (2 \times (2 \times ((22 - 2)^2 - (22 + 2))) \\
&:= 33/3 + 3 \times 3 \times 333 \\
&:= 4 \times (4 \times (444 - 4^4)) \\
&:= 5^5 - ((555 + 5)/5 + 5) \\
&:= ((6 + 6)/6)^6 \times (66/6 + 6 \times 6) \\
&:= ((7 \times 7 + 7)^{(7+7)/7}) - ((7 + 7)/7)^7 \\
&:= 8 \times (888 - 8 \times 8 \times 8) \\
&:= 99/9 + 9 \times ((9 + 9) \times (9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3009 &:= 1 + (11 + (111 \times (1 + 1 + 1)^{1+1+1})) \\
&:= ((22/2 + 2 \times 22)^2) - 2^{2+2} \\
&:= 3 + 3 \times (3 \times 333 + 3) \\
&:= 4/4 + (4 \times (4 \times (444 - 4^4))) \\
&:= 5^5 - (555/5 + 5) \\
&:= (66/6 + 6) \times (666/6 + 66) \\
&:= 7 \times 7 \times (7 \times 7 + 7 + 7) - 7/7 - 77 \\
&:= 8/8 + (8 \times (888 - 8 \times 8 \times 8)) \\
&:= 9 + (((9 + 9 + 9)/9) \times (999 + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3010 &:= 11 + (((1 + 1 + 1) \times (11 - 1)^{1+1+1}) - 1) \\
&:= 2^{22/2} + ((2 \times (22^2 - 2)) - 2) \\
&:= 3 + (3 \times (3 \times 333 + 3) + 3/3) \\
&:= (4 + 4)/4 + (4 \times (4 \times (444 - 4^4))) \\
&:= 5 + (5^5 - 5 \times 5 \times 5) + 5) \\
&:= (6 - 6/6) \times (666 - ((6 + 6)/6)^6) \\
&:= (77 - 7) \times ((7/7 - 7) + 7 \times 7) \\
&:= (8 + 8)/8 + (8 \times (888 - 8 \times 8 \times 8)) \\
&:= ((99 + 9 + 9)/9) + 9 \times ((9 + 9) \times (9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3011 &:= 11 + ((1 + 1 + 1) \times (11 - 1)^{1+1+1}) \\
&:= 2 + (((22/2 + 2 \times 22)^2) - 2^{2+2}) \\
&:= 3 + (3 \times 3 \times 333 + 33/3) \\
&:= 4 + (4^4 \times ((4 + 4) + 4)) - (4^4 + 4)/4 \\
&:= 5^5 + (55/5 - 5 \times 5 \times 5) \\
&:= (6 \times (6 + 6) \times (6 \times 6 + 6)) - (6/6 + 6 + 6) \\
&:= 7/7 + ((77 - 7) \times ((7/7 - 7) + 7 \times 7)) \\
&:= 888 + ((88 \times (8 + 8 + 8)) + (88/8)) \\
&:= 9 \times (99 + 9) + (((9 + 9)/9)^{99/9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3012 &:= 1 + (11 + ((1 + 1 + 1) \times (11 - 1)^{1+1+1})) \\
&:= 2^{22/2} + (2 \times (22^2 - 2)) \\
&:= 3 + (3 \times (3 \times 333 + 3) + 3) \\
&:= 4 + (4 \times (4 \times (444 - 4^4))) \\
&:= 5^5 - (555 + 5 + 5)/5 \\
&:= (6 + 6) \times (6 \times (6 \times 6 + 6)) - 6/6) \\
&:= 7 + ((7 \times 7 \times (77 + 7)) - 7777/7) \\
&:= (8/((8 + 8)/8)) + (8 \times (888 - 8 \times 8 \times 8)) \\
&:= 9 + (((9 + 9 + 9)/9) \times (999 - 9/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3013 &:= (1 + (11 + 11)) \times ((11 \times (1 + 11)) - 1) \\
&:= 2/2 + ((2 \times (22^2 - 2)) + 2^{22/2}) \\
&:= (3 \times (3 \times (333 + 3))) - 33/3 \\
&:= (((4 + 4) + 4) \times (4^4 - 4)) - 44/4 \\
&:= 5^5 - (555 + 5)/5 \\
&:= (6 \times (6 + 6) \times (6 \times 6 + 6)) - 66/6 \\
&:= 7 \times 7 + (((7 + 7 + 7)/7)^7 + 777) \\
&:= 8 + ((888/8 \times (88/8 + 8 + 8)) + 8) \\
&:= 99 + (9 \times (9 + 9) \times (9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3014 &:= ((111 - 1)/(1 + 1))^{1+1} - 11 \\
&:= 22 \times ((22/2)^2 + 2^{2+2}) \\
&:= (3 \times ((3 \times 333 + 3) + 3)) - 3/3 \\
&:= 44/4 \times (((4 + 4)/4 + 4^4) + 4 \times 4) \\
&:= 5^5 - 555/5 \\
&:= 6 + (((6 + 6)/6)^6 \times (66/6 + 6 \times 6)) \\
&:= 7 + (((7/7 + 7 \times 7) \times (77/7 + 7 \times 7)) + 7) \\
&:= 8 + ((8 - (8 + 8)/8) \times (8 \times 8 \times 8 - 88/8)) \\
&:= 99 + (9 \times (9 + 9) \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3015 &:= ((111 - 1)/(1 + 1))^{1+1} - 11 + 1 \\
&:= 222/2 + (22^2 \times (2 + 2 + 2)) \\
&:= 3 \times ((3 \times 333 + 3) + 3) \\
&:= (44 + 4/4) \times (((4^4 - 4)/4) + 4) \\
&:= 5^5 - (55 + 55) \\
&:= (66 + 6/6) \times (666/6 - 66) \\
&:= ((7 + 7)/7 + 7) \times (7 \times 7 \times 7 - (7/7 + 7)) \\
&:= 8 + ((8 \times (888 - 8 \times 8 \times 8)) - 8/8) \\
&:= 99 + 9 \times (9 + 9) \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3016 &:= (1 + 1 + 11) \times (111 + 11^{1+1}) \\
&:= 2 \times 22^2 + 2^{22/2} \\
&:= 3/3 + (3 \times ((3 \times 333 + 3) + 3)) \\
&:= (((4 + 4) + 4) \times (4^4 - 4)) - 4 - 4 \\
&:= 5^5 + (5/5 - (55 + 55)) \\
&:= (6 \times (6 \times (6 - 6 \times 6))) + (((6 + 6)/6)^{6+6}) \\
&:= 77 + (7 \times (7 \times 7 \times 7 + 77) - 7/7) \\
&:= 8 + (8 \times (888 - 8 \times 8 \times 8)) \\
&:= 9/9 + (9 \times (9 + 9) \times (9 + 9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3017 &:= 1 + ((1 + 1 + 11) \times (111 + 11^{1+1})) \\
&:= 2/2 + (2 \times 22^2 + 2^{22/2}) \\
&:= 33/3 + 3 \times (3 \times 333 + 3) \\
&:= 4 + (((4 + 4) + 4) \times (4^4 - 4)) - 44/4 \\
&:= 5 + (5^5 - (555 + 5 + 5)/5) \\
&:= (6/6 + 6) \times ((6 \times (66 + 6)) - 6/6) \\
&:= 77 + 7 \times (7 \times 7 \times 7 + 77) \\
&:= ((8 \times 8 - (8/8 + 8))^{(8+8)/8}) - 8 \\
&:= 9 + (9 \times ((9 + 9) \times (9 + 9) + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3018 &:= 1 + (1 + ((1 + 1 + 11) \times (111 + 11^{1+1}))) \\
&:= 2 + (2 \times 22^2 + 2^{22/2}) \\
&:= 3 + (3 \times ((3 \times 333 + 3) + 3)) \\
&:= (4 - 4/4) \times (4 \times (4^4 - 4) - (4 + 4)/4) \\
&:= 5 + (5^5 - (555 + 5)/5) \\
&:= (6 \times (6 + 6) \times (6 \times 6 + 6)) - 6 \\
&:= (((7 \times 7 - 7/7) + 7)^{(7+7)/7}) - 7 \\
&:= (8 - (8 + 8)/8) \times (8 \times 8 \times 8 - (8/8 + 8)) \\
&:= 999/9 + (9 \times (9 + 9) \times (9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3019 &:= 11 + (11 + (111 \times (1 + 1 + 1)^{1+1+1})) \\
&:= ((22/2 + 2 \times 22)^2) - (2 + 2 + 2) \\
&:= 3 + ((3 \times ((3 \times 333 + 3) + 3)) + 3/3) \\
&:= (((4 + 4) + 4) \times (4^4 - 4)) - (4/4 + 4) \\
&:= 5 + (5^5 - 555/5) \\
&:= 6/6 + ((6 \times (6 + 6) \times (6 \times 6 + 6)) - 6) \\
&:= 7/7 + (((7 \times 7 - 7/7) + 7)^{(7+7)/7}) - 7) \\
&:= 88/8 + (8 \times (888 - 8 \times 8 \times 8)) \\
&:= 9 \times (9 + 9) \times (9 + 9) + (((999 + 9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3020 &:= (1 + 1) \times (((1 + 1 + 1) \times (1 + 1 + 11))^{1+1} - 11) \\
&:= 2^{22/2} + (2 \times (22^2 + 2)) \\
&:= (3 \times (3 \times (333 + 3))) - (3/3 + 3) \\
&:= (((4 + 4) + 4) \times (4^4 - 4)) - 4 \\
&:= 55 \times 55 - 5 \\
&:= (6 + 6)/6 + ((6 \times (6 + 6) \times (6 \times 6 + 6)) - 6) \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 777) + 7 \times 7) \\
&:= ((88 + 8)/8) + (8 \times (888 - 8 \times 8 \times 8)) \\
&:= 9 \times (99 + 9) + (((9 + 9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3021 &:= (1 + 1 + 1) \times ((11 - 1 - 1) \times (1 + 111) - 1) \\
&:= ((22/2 + 2 \times 22)^2) - 2 - 2 \\
&:= (3 \times (3 \times (333 + 3))) - 3 \\
&:= 4/4 + (((4 + 4) + 4) \times (4^4 - 4)) - 4 \\
&:= 5/5 + (55 \times 55 - 5) \\
&:= (6 \times (6 + 6) \times (6 \times 6 + 6)) - 6 \times 6/(6 + 6) \\
&:= 77/7 + ((77 - 7) \times ((7/7 - 7) + 7 \times 7)) \\
&:= (8 \times 8 - 88/8) \times ((8/8 - 8) + 8 \times 8) \\
&:= ((9 + 9 + 9)/9) \times ((999 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3022 &:= ((111 - 1)/(1 + 1))^{1+1} - 1 - 1 - 1 \\
&:= 2222 + (2 \times (22 - 2))^2 \\
&:= 3/3 + ((3 \times (3 \times (333 + 3))) - 3) \\
&:= (((4 + 4) + 4) \times (4^4 - 4)) - (4 + 4)/4 \\
&:= (5 + 5)/5 + (55 \times 55 - 5) \\
&:= (6 \times (6 + 6) \times (6 \times 6 + 6)) - (6 + 6)/6 \\
&:= 7 + (((7 + 7)/7 + 7) \times (7 \times 7 \times 7 - (7/7 + 7))) \\
&:= ((8 - (8 + 8)/8) \times (8 \times 8 \times 8 - 8)) - (8 + 8)/8 \\
&:= ((9 + 9)/9) \times (((9 + 9)/9)^9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3023 &:= ((111-1)/(1+1))^{1+1} - 1 - 1 \\
&:= ((22/2 + 2 \times 22)^2) - 2 \\
&:= (3 \times (3 \times (333+3))) - 3/3 \\
&:= (((4+4)+4) \times (4^4-4)) - 4/4 \\
&:= 55 \times 55 - (5+5)/5 \\
&:= (6 \times (6+6) \times (6 \times 6+6)) - 6/6 \\
&:= (((7+7)/7+7) \times (7 \times 7 \times 7-7)) - 7/7 \\
&:= ((8-(8+8)/8) \times (8 \times 8 \times 8-8)) - 8/8 \\
&:= 9 + (9 \times (9+9) \times (9+9) - 9/9) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3024 &:= ((111-1)/(1+1))^{1+1} - 1 \\
&:= 2 \times (2 \times (2 \times ((22-2)^2 - 22))) \\
&:= 3 \times (3 \times (333+3)) \\
&:= ((4+4)+4) \times (4^4-4) \\
&:= 55 \times 55 - 5/5 \\
&:= 6 \times (6+6) \times (6 \times 6+6) \\
&:= ((7+7)/7+7) \times (7 \times 7 \times 7-7) \\
&:= (8-(8+8)/8) \times (8 \times 8 \times 8-8) \\
&:= 9 + (9 \times (9+9) \times (9+9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3025 &:= ((111-1)/(1+1))^{1+1} \\
&:= (22/2 + 2 \times 22)^2 \\
&:= 3/3 + (3 \times (3 \times (333+3))) \\
&:= 4/4 + (((4+4)+4) \times (4^4-4)) \\
&:= 55 \times 55 \\
&:= 6/6 + (6 \times (6+6) \times (6 \times 6+6)) \\
&:= ((7 \times 7 - 7/7) + 7)^{(7+7)/7} \\
&:= (8 \times 8 - (8/8+8))^{(8+8)/8} \\
&:= ((999-9)/(9+9))^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3026 &:= ((111-1)/(1+1))^{1+1} + 1 \\
&:= 2/2 + ((22/2 + 2 \times 22)^2) \\
&:= 3 + ((3 \times (3 \times (333+3))) - 3/3) \\
&:= (4+4)/4 + (((4+4)+4) \times (4^4-4)) \\
&:= 5/5 + 55 \times 55 \\
&:= (6+6)/6 + (6 \times (6+6) \times (6 \times 6+6)) \\
&:= 7/7 + (((7 \times 7 - 7/7) + 7)^{(7+7)/7}) \\
&:= 8/8 + ((8 \times 8 - (8/8+8))^{(8+8)/8}) \\
&:= 99 + (9 \times (9+9) \times (9+9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3027 &:= ((111-1)/(1+1))^{1+1} + 1 + 1 \\
&:= 2 + ((22/2 + 2 \times 22)^2) \\
&:= 3 + (3 \times (3 \times (333+3))) \\
&:= 4 + (((4+4)+4) \times (4^4-4)) - 4/4 \\
&:= (5+5)/5 + 55 \times 55 \\
&:= (6 \times 6/(6+6)) + (6 \times (6+6) \times (6 \times 6+6)) \\
&:= 7 \times (777 - 7 \times 7 \times 7) - 77/7 \\
&:= 8 + ((8 \times (888 - 8 \times 8 \times 8)) + (88/8)) \\
&:= 999/9 + 9 \times (9+9) \times (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3028 &:= ((111-1)/(1+1))^{1+1} + 1 + 1 + 1 \\
&:= 2 + (((22/2 + 2 \times 22)^2) + 2/2) \\
&:= 3 + ((3 \times (3 \times (333+3))) + 3/3) \\
&:= 4 + (((4+4)+4) \times (4^4-4)) \\
&:= 5 + (55 \times 55 - ((5+5)/5)) \\
&:= 6 + ((6 \times (6+6) \times (6 \times 6+6)) - ((6+6)/6)) \\
&:= 77 + (7 \times (7 \times 7 \times 7 + 77) + (77/7)) \\
&:= ((8 \times 8 \times (88+8)) - 88)/(8+8)/8 \\
&:= 9 \times (9+9) \times (9+9) + ((999+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3029 &:= (1+1+11) \times (11 + (1+1) \times 111) \\
&:= 2 + (((22/2 + 2 \times 22)^2) + 2) \\
&:= 33 + (3 \times 3 \times 333 - 3/3) \\
&:= 4 + (((4+4)+4) \times (4^4-4)) + 4/4 \\
&:= 5 + (55 \times 55 - 5/5) \\
&:= 6 + ((6 \times (6+6) \times (6 \times 6+6)) - 6/6) \\
&:= 77 \times (7 \times 7 - 7) - (((7+7)/7)^7 + 77) \\
&:= 8 + ((8 \times 8 - 88/8) \times ((8/8-8) + 8 \times 8)) \\
&:= 9 + (((9+9)/9)^{99/9}) + 9 \times (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3030 &:= (1+1+1) \times ((11111-1)/11) \\
&:= (2/2+2) \times ((2 \times (22^2+22)) - 2) \\
&:= 33 + 3 \times 3 \times 333 \\
&:= 4 + (((4+4)+4) \times (4^4-4)) + (4+4)/4 \\
&:= 5 + 55 \times 55 \\
&:= 6 + (6 \times (6+6) \times (6 \times 6+6)) \\
&:= 7 \times (777 - 7 \times 7 \times 7) - (7/7+7) \\
&:= (8-(8+8)/8) \times ((8 \times 8 \times 8-8) + 8/8) \\
&:= ((9+9+9)/9) \times (99/9+999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3031 &:= 1 + ((1+1+1) \times ((11111-1)/11)) \\
&:= 2 + (((22/2 + 2 \times 22)^2) + 2) + 2 \\
&:= 3/3 + (3 \times 3 \times 333 + 33) \\
&:= 4 + (((4+4)+4) \times (4^4-4)) - 4/4 + 4 \\
&:= 5 + (55 \times 55 + 5/5) \\
&:= 6 + ((6 \times (6+6) \times (6 \times 6+6)) + 6/6) \\
&:= 7 \times (777 - 7 \times 7 \times 7) - 7 \\
&:= 8 + (((8-(8+8)/8) \times (8 \times 8 \times 8-8)) - 8/8) \\
&:= 9 + (((9+9)/9) \times (((9+9)/9)^9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3032 &:= ((1+1+1) \times (11 + (11-1)^{1+1+1})) - 1 \\
&:= 2 \times (((2+2+2)^{2+2} - 2) + 222) \\
&:= (3 \times (3 \times (333+3) + 3)) - 3/3 \\
&:= 4 + (((4+4)+4) \times (4^4-4)) + 4 \\
&:= 5 + (55 \times 55 + ((5+5)/5)) \\
&:= 6 + ((6 \times (6+6) \times (6 \times 6+6)) + ((6+6)/6)) \\
&:= 7 + (((7 \times 7 - 7/7) + 7)^{(7+7)/7}) \\
&:= 8 + ((8-(8+8)/8) \times (8 \times 8 \times 8-8)) \\
&:= (9-9/9) \times (9 \times 99 - ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3033 &:= (1+1+1) \times (11 + (11-1)^{1+1+1}) \\
&:= 2 \times (2+2) + ((22/2 + 2 \times 22)^2) \\
&:= 3 \times (3 \times (333+3) + 3) \\
&:= 4 + (((4+4)+4) \times (4^4-4)) + 4/4 + 4 \\
&:= 5 + ((55 \times 55 - ((5+5)/5)) + 5) \\
&:= 6 + ((6 \times (6+6) \times (6 \times 6+6)) + (6 \times 6/(6+6))) \\
&:= ((7+7)/7+7) \times ((7 \times 7 \times 7-7) + 7/7) \\
&:= 8 + ((8 \times 8 - (8/8+8))^{(8+8)/8}) \\
&:= 9 + (9 \times (9+9) \times (9+9) + 99) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3034 &:= 1 + ((1+1+1) \times (11 + (11-1)^{1+1+1})) \\
&:= ((2+2+2) \times (22^2+22)) - 2 \\
&:= 3/3 + (3 \times (3 \times (333+3) + 3)) \\
&:= (44-4)/4 + (((4+4)+4) \times (4^4-4)) \\
&:= 5 + ((55 \times 55 - 5/5) + 5) \\
&:= ((66-6)/6) + (6 \times (6+6) \times (6 \times 6+6)) \\
&:= (77 \times (77/7)) + ((7+7+7)/7)^7 \\
&:= 8 + (((8 \times 8 - (8/8+8))^{(8+8)/8}) + 8/8) \\
&:= 9 + (((999-9)/(9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3035 &:= 11 + ((111-1)/(1+1))^{1+1} - 1 \\
&:= ((2+2+2) \times (22^2+22)) - 2/2 \\
&:= 33/3 + (3 \times (3 \times (333+3))) \\
&:= 44/4 + (((4+4)+4) \times (4^4-4)) \\
&:= 5 + (55 \times 55 + 5) \\
&:= 66/6 + (6 \times (6+6) \times (6 \times 6+6)) \\
&:= 77/7 + (((7+7)/7+7) \times (7 \times 7 \times 7-7)) \\
&:= 88/8 + ((8-(8+8)/8) \times (8 \times 8 \times 8-8)) \\
&:= 9 + (9 \times (9+9) \times (9+9) + (99/9)) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3036 &:= 11 + ((111-1)/(1+1))^{1+1} \\
&:= (2+2+2) \times (22^2+22) \\
&:= 3 + (3 \times (3 \times (333+3) + 3)) \\
&:= 44 \times ((4^4+4)/4+4) \\
&:= 55/5 + 55 \times 55 \\
&:= 6 + ((6 \times (6+6) \times (6 \times 6+6)) + 6) \\
&:= 7 \times (777 - 7 \times 7 \times 7) - (7+7)/7 \\
&:= ((8 \times (8 \times (88+8) - 8)) - 8)/(8+8)/8 \\
&:= 9 + (9 \times (9+9) \times (9+9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3037 &:= 11 + ((111-1)/(1+1))^{1+1} + 1 \\
&:= 2/2 + ((2+2+2) \times (22^2+22)) \\
&:= 3 + ((3 \times (3 \times (333+3) + 3)) + 3/3) \\
&:= 4/4 + (44 \times ((4^4+4)/4+4)) \\
&:= 55 \times 55 + (55+5)/5 \\
&:= 6 + (((6 \times (6+6) \times (6 \times 6+6)) + 6/6) + 6) \\
&:= 7 \times (777 - 7 \times 7 \times 7) - 7/7 \\
&:= ((8 \times 8 - 8)^{(8+8)/8}) - (88/8+88) \\
&:= 9 + (9 \times (9+9) \times (9+9) + ((999+9)/9))
\end{aligned}$$

- ▶ 3038 := $((1+1+1) \times ((1+1)^{11-1} - 11)) - 1$
:= $2 + ((2+2+2) \times (22^2 + 22))$
:= $(33/3+3) \times ((3+3)^3 + 3/3)$
:= $(4+4)/4 + (44 \times ((4^4 + 4)/4 + 4))$
:= $5^5 - (((5+5)/5)^5 + 55)$
:= $(6/6+6) \times ((6 \times (66+6)) + ((6+6)/6))$
:= $7 \times (777 - 7 \times 7 \times 7)$
:= $8 + ((8 - (8+8)/8) \times ((8 \times 8 \times 8 - 8) + 8/8))$
:= $999 + (((9+9)/9)^{99/9} - 9)$
- ▶ 3039 := $(1+1+1) \times ((1+1)^{11-1} - 11)$
:= $(2/2+2) \times ((2^{22/2} - 22)/2)$
:= $33+3 \times (3 \times 333+3)$
:= $(4-4/4) \times (4 \times 4^4 - 44/4)$
:= $5 \times 5 + (5^5 - 555/5)$
:= $666 + (6 \times 6 \times 66 - (6 \times 6/(6+6)))$
:= $7/7+7 \times (777 - 7 \times 7 \times 7)$
:= $(88/8 - 8) \times (8 \times 8 \times (8+8) - (88/8))$
:= $9 + (((9+9+9)/9) \times (99/9 + 999))$
- ▶ 3040 := $1 + ((1+1+1) \times ((1+1)^{11-1} - 11))$
:= $(2 \times ((2 \times (22-2) - 2/2)^2)) - 2$
:= $3/3 + (3 \times (3 \times 333 + 3) + 33)$
:= $4 + (44 \times ((4^4 + 4)/4 + 4))$
:= $5 + ((55 \times 55 + 5) + 5)$
:= $666 + (6 \times 6 \times 66 - ((6+6)/6))$
:= $(7+7)/7 + 7 \times (777 - 7 \times 7 \times 7)$
:= $8 \times ((8 \times (88+8) - 8)/(8+8)/8)$
:= $(9/9 + 9 + 9) \times (9 \times (9+9) - ((9+9)/9))$
- ▶ 3041 := $1 + (1 + ((1+1+1) \times ((1+1)^{11-1} - 11)))$
:= $((((2 \times 2 \times (22-2) - 2)^2) - 2)/2)$
:= $3 \times 3 \times 33 + ((33/3 + 3)^3)$
:= $4 + ((44 \times ((4^4 + 4)/4 + 4)) + 4/4)$
:= $5 + (55 \times 55 + (55/5))$
:= $666 + (6 \times 6 \times 66 - 6/6)$
:= $77 + (((7+7+7)/7)^7 + 777)$
:= $8 + (((8 \times 8 - (8/8+8))^{(8+8)/8} + 8))$
:= $9 + ((9-9/9) \times (9 \times 99 - ((9+9)/9)^9))$
- ▶ 3042 := $(1+1) \times ((1+1+1) \times (1+1+11))^{1+1}$
:= $2 \times ((2 \times (22-2) - 2/2)^2)$
:= $3 \times ((3 \times (333+3) + 3) + 3)$
:= $(4-4/4) \times ((4-44)/4 + 4 \times 4^4)$
:= $5 + (55 \times 55 + ((55+5)/5))$
:= $666 + 6 \times 6 \times 66$
:= $(7/7 + 77) \times (((7-77)/7) + 7 \times 7)$
:= $8 + (((8 \times 8 - (8/8+8))^{(8+8)/8} + 8/8) + 8)$
:= $(9+9) \times ((9 \times (9+9) - ((9+9)/9)) + 9)$
- ▶ 3043 := $1 + ((1+1) \times ((1+1+1) \times (1+1+11))^{1+1})$
:= $((((2 \times 2 \times (22-2) - 2)^2) + 2)/2)$
:= $((3+3) \times 3^{3+3} - (33/3)^3)$
:= $4 + ((4-4/4) \times (4 \times 4^4 - 44/4))$
:= $5 + (5^5 - (((5+5)/5)^5 + 55))$
:= $6/6 + (6 \times 6 \times 66 + 666)$
:= $7 + (7 \times (777 - 7 \times 7 \times 7) - ((7+7)/7))$
:= $8 + (((8 - (8+8)/8) \times (8 \times 8 \times 8 - 8)) + (88/8))$
:= $((9-9/9) + 9) \times ((9 \times 9 - 9/9) + 99)$
- ▶ 3044 := $(1+1) \times (1 + ((1+1+1) \times (1+1+11))^{1+1})$
:= $2 + (2 \times ((2 \times (22-2) - 2/2)^2))$
:= $3 + (((33/3+3)^3) + 3 \times 3 \times 33)$
:= $4 + ((44 \times ((4^4 + 4)/4 + 4)) + 4)$
:= $5^5 - ((5 \times 5 + 55) + 5/5)$
:= $666 + (6 \times 6 \times 66 + ((6+6)/6))$
:= $7 + (7 \times (777 - 7 \times 7 \times 7) - 7/7)$
:= $((8 \times (8 \times (88+8) - 8) + 8)/(8+8)/8)$
:= $9 + (((9 \times (9+9) \times (9+9) + (99/9)) + 99) + 9)$
- ▶ 3045 := $(11 + (11-1)) \times (1 + (1+11))^{1+1}$
:= $2 + (((2 \times 2 \times (22-2) - 2)^2) + 2)/2)$
:= $3 + (3 \times ((3 \times (333+3) + 3) + 3))$
:= $(4/4+4) \times ((4/4+4)^4 - 4 \times 4)$
:= $5^5 - (5 \times 5 + 55)$
:= $(6 \times 6 - (6/6+6)) \times (666/6 - 6)$
:= $7 + 7 \times (777 - 7 \times 7 \times 7)$
:= $(88 - 8/8) \times ((88/8 + 8 + 8) + 8)$
:= $9 + ((9 \times (9+9) \times (9+9) + 999/9) + 9)$
- ▶ 3046 := $1 + ((11 + (11-1)) \times (1 + (1+11))^{1+1})$
:= $2 \times (((2 \times (22-2) - 2/2)^2) + 2)$
:= $3 + (((3+3) \times 3^{3+3} - (33/3)^3)$
:= $44 \times 44 + (4444 - 4)/4$
:= $5^5 + (5/5 - (5 \times 5 + 55))$
:= $6 + ((6 \times 6 \times 66 - ((6+6)/6)) + 666)$
:= $7 + (7 \times (777 - 7 \times 7 \times 7) + 7/7)$
:= $((8 \times 8 - 8)^{(8+8)/8}) - ((8+8)/8 + 88)$
:= $999 + (((9+9)/9)^{99/9} - 9/9)$
- ▶ 3047 := $11 \times (1 + ((1+11) \times (1 + (11+11))))$
:= $22 + ((22/2 + 2 \times 22)^2)$
:= $33/3 \times (((3^{3+3} + 3)/3) + 33)$
:= $44 \times 44 + 4444/4$
:= $5^5 + ((5+5)/5 - (5 \times 5 + 55))$
:= $6 + ((6 \times 6 \times 66 - 6/6) + 666)$
:= $7 + (7 \times (777 - 7 \times 7 \times 7) + ((7+7)/7))$
:= $((8 \times 8 - 8)^{(8+8)/8}) - (8/8 + 88)$
:= $999 + (((9+9)/9)^{99/9})$
- ▶ 3048 := $(1+1)^{11} + (11-1)^{1+1+1}$
:= $2 \times ((2+2+2) \times (2^{2 \times (2+2)} - 2))$
:= $(3/3+3) \times (3^{3+3} + 33)$
:= $(4-4/4) \times (4 \times 4^4 - (4+4))$
:= $5 \times 5 + (55 \times 55 - ((5+5)/5))$
:= $6 + (6 \times 6 \times 66 + 666)$
:= $(7/7+7) \times (7 \times (7 \times 7 + 7) - (77/7))$
:= $(8+8+8) \times (8 \times (8+8) - 8/8)$
:= $9/9 + (((9+9)/9)^{99/9} + 999)$
- ▶ 3049 := $1 + ((1+1)^{11} + (11-1)^{1+1+1})$
:= $2 + (((22/2 + 2 \times 22)^2) + 22)$
:= $3/3 + ((3/3+3) \times (3^{3+3} + 33))$
:= $4 + ((4/4+4) \times ((4/4+4)^4 - 4 \times 4))$
:= $5 \times 5 + (55 \times 55 - 5/5)$
:= $6 + ((6 \times 6 \times 66 + 666) + 6/6)$
:= $77/7 + 7 \times (777 - 7 \times 7 \times 7)$
:= $8/8 + ((8+8+8) \times (8 \times (8+8) - 8/8))$
:= $9 + ((9/9 + 9 + 9) \times (9 \times (9+9) - ((9+9)/9)))$
- ▶ 3050 := $(1 + 11^{1+1}) \times (1 + ((1+1) \times (1+11)))$
:= $2 + (2 \times ((2+2+2) \times (2^{2 \times (2+2)} - 2)))$
:= $(3 \times (3 \times (333+3+3))) - 3/3$
:= $4^4 + (44/4 \times (4^4 - (4+4)/4))$
:= $5 \times (555 + 55)$
:= $6 + ((6 \times 6 \times 66 + 666) + ((6+6)/6))$
:= $(7/7 + 7 \times 7) \times ((77+7)/7 + 7 \times 7)$
:= $(8+8)/8 + ((8+8+8) \times (8 \times (8+8) - 8/8))$
:= $((9/9 + 9 + 9) \times (9 \times (9+9) - 9/9)) - 9$
- ▶ 3051 := $(1+1+111) \times (1+1+1)^{1+1+1}$
:= $2 + (((22/2 + 2 \times 22)^2) + 22) + 2$
:= $3 \times (3 \times (333 + 3 + 3))$
:= $4 + (4444/4 + 44 \times 44)$
:= $5 \times 5 + (55 \times 55 + 5/5)$
:= $6 + ((6 \times 6 - (6/6+6)) \times (666/6 - 6))$
:= $777/7 + 7 \times (7 \times 7 + 777)$
:= $(88/8 - 8) \times ((8 \times 8 \times (8+8) - 8) + 8/8)$
:= $(9+9+9) \times ((999+9+9)/9)$
- ▶ 3052 := $1 + ((1+1+111) \times (1+1+1)^{1+1+1})$
:= $(2^{2+2} - 2) \times (222 - (2+2))$
:= $3/3 + (3 \times (3 \times (333 + 3 + 3)))$
:= $((4+4)^4) - (4 \times (4^4 + 4) + 4)$
:= $5 \times 5 + (55 \times 55 + ((5+5)/5))$
:= $666 + (6 \times 6 \times 66 + ((66-6)/6))$
:= $7 + (7 \times (777 - 7 \times 7 \times 7) + 7)$
:= $(8-8/8) \times (888/((8+8)/8) - 8)$
:= $((9/9 + 9 + 9) + 9) \times (9/9 + 99 + 9)$

$$\begin{aligned}
\blacktriangleright 3053 &:= (1 + (11 \times ((1111 - 1)/(1 + 1))))/(1 + 1) \\
&:= (((2 \times 2 \times (22 - 2) - 2)^2) + 22)/2 \\
&:= (((((3 \times (3 + 3)) + 3)^3) - 3)/3) - 33 \\
&:= 4/4 + (((4 + 4)^4) - (4 \times (4^4 + 4) + 4)) \\
&:= 5^5 - (((55 + 5)/5) + 55) + 5 \\
&:= ((6 - 6/6)^{6-6/6}) - (66 + 6) \\
&:= ((7/7 - 7) + 7 \times 7) \times ((7/7 - 7) + 77) \\
&:= (8 \times (8 \times (8 \times 8 - 8 - 8))) - (88/8 + 8) \\
&:= 9/9 + (((9/9 + 9 + 9) + 9) \times (9/9 + 99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3054 &:= (1 + 1 + 1) \times (((1 + 1)^{11} - (1 + 11))/(1 + 1)) \\
&:= 2 + ((2^{2+2} - 2) \times (222 - (2 + 2))) \\
&:= 3 + (3 \times (3 \times (333 + 3 + 3))) \\
&:= (4 - 4/4) \times (4 \times 4^4 - ((4 + 4)/4 + 4)) \\
&:= 5^5 - ((55/5 + 55) + 5) \\
&:= (6 \times ((6 + 6) \times (6 \times 6 + 6) + 6)) - 6 \\
&:= ((7 + 7)/7)^7 + (77 \times (7 \times 7 - 77/7)) \\
&:= ((8 + 8)/8) \times (8 \times 8 \times (8 + 8 + 8) - (8/8 + 8)) \\
&:= (9 + 9 + 9)/9 \times (((999 + 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3055 &:= ((11 \times 1111) - 1)/(1 + 1 + 1 + 1) \\
&:= 2 + (((((2 \times 2 \times (22 - 2) - 2)^2) + 22)/2) \\
&:= (((((3 \times (3 + 3)) + 3)^3) + 3)/3) - 33 \\
&:= ((4 + 4)^4) - (4 \times (4^4 + 4) + 4/4) \\
&:= 5 + (55 \times 55 + 5 \times 5) \\
&:= (66 - 6/6) \times (66/6 + 6 \times 6) \\
&:= 7 + ((7/7 + 7) \times (7 \times (7 \times 7 + 7) - (77/7))) \\
&:= (8/8 + 8 \times 8) \times (8 \times 8 - (8/8 + 8 + 8)) \\
&:= (9 + 9) \times (99 + 9) + 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3056 &:= 1 + (((11 \times 1111) - 1)/(1 + 1 + 1 + 1)) \\
&:= 2 \times (2 \times (2 \times ((2^{2+2} \times (22 + 2)) - 2))) \\
&:= (33/3)^3 + ((3 \times 3 + 3)^3 - 3) \\
&:= 4 \times (4 \times 4^4 - (4^4 + 4)) \\
&:= 5 + ((5/5 - (5 \times (5 + 5 + 5))) + 5^5) \\
&:= 6/6 + ((66 - 6/6) \times (66/6 + 6 \times 6)) \\
&:= 7 + (7 \times (777 - 7 \times 7 \times 7) + (77/7)) \\
&:= (8 + 8) \times (8 \times (8 + 8 + 8) - 8/8) \\
&:= 9 + (((9 + 9)/9)^{99/9}) + 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3057 &:= (1 + 1 + 1) \times ((1 + (1 + 1)^{11} - 11)/(1 + 1)) \\
&:= ((22 \times (2^{2 \times (2+2)} + 22)) - 2)/2 \\
&:= 33 + (3 \times (3 \times (333 + 3))) \\
&:= 4/4 + (4 \times (4 \times 4^4 - (4^4 + 4))) \\
&:= 55 \times 55 + ((5 + 5)/5)^5 \\
&:= (66 \times (6 \times 6 + 6 + 6)) - 666/6 \\
&:= 7 + ((7/7 + 7 \times 7) \times ((77 + 7)/7 + 7 \times 7)) \\
&:= 8/8 + ((8 + 8) \times (8 \times (8 + 8 + 8) - 8/8)) \\
&:= (9 + 9 + 9)/9 \times ((99/9 + 999) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3058 &:= 11 \times ((1 + 1111)/(1 + 1 + 1 + 1)) \\
&:= 22 \times ((2^{2 \times (2+2)} + 22)/2) \\
&:= 3 + (((((3 \times (3 + 3)) + 3)^3) + 3)/3) - 33 \\
&:= ((4 + 4)^4) + ((4 + 4)/4 - 4 \times (4^4 + 4)) \\
&:= 5^5 - (((55 + 5)/5) + 55) \\
&:= ((6 - 6/6)^{6-6/6}) - (66 + 6/6) \\
&:= ((7 \times 7 + 7)^{(7+7)/7}) - 7/7 - 77 \\
&:= ((8 - (8 + 8)/8) \times (8 \times 8 \times 8 - 8/8)) - 8 \\
&:= ((9 + 9) \times (9 \times (9 + 9) + 9)) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3059 &:= 11^{1+1+1} + ((1 + 11)^{1+1+1}) \\
&:= (22 + 2/2) \times (222/2 + 22) \\
&:= (33/3)^3 + (3 \times 3 + 3)^3 \\
&:= ((4 - 4/4) \times (4 \times 4^4 - 4)) - 4/4 \\
&:= 5^5 - (55/5 + 55) \\
&:= ((6 - 6/6)^{6-6/6}) - 66 \\
&:= ((7 \times 7 + 7)^{(7+7)/7}) - 77 \\
&:= (8 - 8/8) \times (8 \times (8 \times 8 - 8) - (88/8)) \\
&:= (9/9 + 9 + 9) \times (9 \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3060 &:= (1 + 11) \times (111 + (1 + 11)^{1+1}) \\
&:= (2 + 2 + 2) \times (2^{(2/2+2)^2} - 2) \\
&:= (3^3 + 3) \times (3 \times 33 + 3) \\
&:= (4 - 4/4) \times (4 \times 4^4 - 4) \\
&:= 5^5 - (55 + 5 + 5) \\
&:= 6 \times ((6 + 6) \times (6 \times 6 + 6) + 6) \\
&:= 7/7 + (((7 \times 7 + 7)^{(7+7)/7}) - 77) \\
&:= (8 - (8 + 8)/8) \times (8 \times 8 \times 8 - ((8 + 8)/8)) \\
&:= (9 + 9) \times ((9 \times (9 + 9) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3061 &:= ((1 + 1 + 1) \times (1 + 1)^{11-1}) - 11 \\
&:= (((2/2 + 2) \times 2^{22/2}) - 22)/2 \\
&:= 3/3 + ((3^3 + 3) \times (3 \times 33 + 3)) \\
&:= (4^4 \times ((4 + 4) + 4)) - 44/4 \\
&:= 5^5 + (5/5 - (55 + 5 + 5)) \\
&:= 6/6 + (6 \times ((6 + 6) \times (6 \times 6 + 6) + 6)) \\
&:= (7 + 7)/7 + (((7 \times 7 + 7)^{(7+7)/7}) - 77) \\
&:= (8 \times (8 \times (8 \times 8 - 8 - 8))) - 88/8 \\
&:= 9/9 + ((9 + 9) \times ((9 \times (9 + 9) - 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3062 &:= 1 + (((1 + 1 + 1) \times (1 + 1)^{11-1}) - 11) \\
&:= 2 + ((2 + 2 + 2) \times (2^{(2/2+2)^2} - 2)) \\
&:= 3 + ((33/3)^3 + (3 \times 3 + 3)^3) \\
&:= (4 - 44)/4 + (4^4 \times ((4 + 4) + 4)) \\
&:= 5^5 - (5^5/5 + 5)/5 + 5 \\
&:= (6 + 6)/6 + (6 \times ((6 + 6) \times (6 \times 6 + 6) + 6)) \\
&:= 777 + (((7 + 7 + 7)/7)^7 + 7 \times (7 + 7)) \\
&:= (8 - 88)/8 + (8 \times (8 \times (8 \times 8 - 8 - 8))) \\
&:= (9 + 9)/9 + ((9 + 9) \times ((9 \times (9 + 9) - 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3063 &:= (1 + 1 + 1) \times ((1 + 1)^{11-1} - 1 - 1 - 1) \\
&:= (2/2 + 2) \times (((2^{22/2} - 2)/2) - 2) \\
&:= 3 + ((3^3 + 3) \times (3 \times 33 + 3)) \\
&:= (4 - 4/4) \times ((4 \times 4^4 - 4) + 4/4) \\
&:= 5^5 + ((5 - 5^5/5)/(5 + 5)) \\
&:= 6 + ((66 \times (6 \times 6 + 6 + 6)) - 666/6) \\
&:= ((77/7 - 7) \times (777 + 7/7)) - 7 \times 7 \\
&:= (8 \times (8 \times (8 \times 8 - 8 - 8))) - (8/8 + 8) \\
&:= (((9 + 9)/9)^9) \times (9 - ((9 + 9 + 9)/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3064 &:= ((1 + 1 + 1) \times (1 + (1 + 1)^{11-1})) - 11 \\
&:= 2 \times (2 \times ((2 \times (2^{2+2} \times (22 + 2))) - 2)) \\
&:= 3 + (((3^3 + 3) \times (3 \times 33 + 3)) + 3/3) \\
&:= (4^4 \times ((4 + 4) + 4)) - 4 - 4 \\
&:= 5^5 - ((55 + 5/5) + 5) \\
&:= 6 + (((6 - 6/6)^{6-6/6}) - (66 + 6/6)) \\
&:= (77/7 - 7) \times (777 - (77/7)) \\
&:= (8 \times (8 \times (8 \times 8 - 8 - 8))) - 8 \\
&:= 9 + ((9 + 9) \times (99 + 9) + 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3065 &:= ((1 + 1 + 1) \times ((1 + 1)^{11-1} - (1 + 1))) - 1 \\
&:= 2 + ((2/2 + 2) \times (((2^{22/2} - 2)/2) - 2)) \\
&:= 3 + (((33/3)^3 + (3 \times 3 + 3)^3) + 3) \\
&:= 4 + ((4^4 \times ((4 + 4) + 4)) - 44/4) \\
&:= 5^5 - (55 + 5) \\
&:= 6 + (((6 - 6/6)^{6-6/6}) - 66) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) - (7/7 + 77)) \\
&:= 8/8 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) - 8) \\
&:= 9 + (((9 + 9)/9)^{99/9}) + 999 + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3066 &:= (1 + 1 + 1) \times ((1 + 1)^{11-1} - (1 + 1)) \\
&:= (2/2 + 2) \times ((2^{2 \times (2+2)+2}) - 2) \\
&:= (33/3 + 3) \times ((3 + 3)^3 + 3) \\
&:= (4 - 4/4) \times (4 \times 4^4 - (4 + 4)/4) \\
&:= 5^5 + (5/5 - (55 + 5)) \\
&:= 6 + (6 \times ((6 + 6) \times (6 \times 6 + 6) + 6)) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) - 77) \\
&:= (8 - (8 + 8)/8) \times (8 \times 8 \times 8 - 8/8) \\
&:= ((9 + 9) \times (9 \times (9 + 9) + 9)) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3067 &:= 1 + (((1 + 1 + 1) \times ((1 + 1)^{11-1} - (1 + 1))) \\
&:= ((2/2 + 2) \times ((2^{22/2} - 2)/2)) - 2 \\
&:= 3/3 + ((33/3 + 3) \times ((3 + 3)^3 + 3)) \\
&:= (4^4 \times ((4 + 4) + 4)) - (4/4 + 4) \\
&:= 5^5 + ((5 + 5)/5 - (55 + 5)) \\
&:= 6 + ((6 \times ((6 + 6) \times (6 \times 6 + 6) + 6)) + 6/6) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) - 77) + 7/7 \\
&:= 8 + ((8 - 8/8) \times (8 \times (8 \times 8 - 8) - (88/8))) \\
&:= ((9 + 9) \times (9 \times (9 + 9) + 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3068 &:= ((1+1+1) \times ((1+1)^{11-1} - 1)) - 1 \\
&:= 2 \times (((2+2+2) \times 2^{2 \times (2+2)}) - 2) \\
&:= (33 \times ((3 \times (3^3 + 3)) + 3)) - 3/3 \\
&:= (4^4 \times ((4+4) + 4)) - 4 \\
&:= 5^5 - ((5+5)/5 + 55) \\
&:= 6 + ((6 \times ((6+6) \times (6 \times 6 + 6) + 6)) + ((6+6)/6)) \\
&:= ((7+7)/7)^7 + 7 \times (7 \times 7 \times 7 + 77) \\
&:= ((8 \times 8 \times (88+8)) - 8) / ((8+8)/8) \\
&:= ((9+9) \times (9 \times (9+9) + 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3069 &:= (1+1+1) \times ((1+1)^{11-1} - 1) \\
&:= (2/2+2) \times ((2^{22/2} - 2)/2) \\
&:= 33 \times ((3 \times (3^3 + 3)) + 3) \\
&:= 4/4 + ((4^4 \times ((4+4) + 4)) - 4) \\
&:= 5^5 - (55 + 5/5) \\
&:= 6 \times (6 \times 66 - 6) + ((6 \times 6 / (6+6))^6) \\
&:= ((7+7)/7 + 7) \times (7 \times 7 \times 7 - ((7+7)/7)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) - (88/8)) \\
&:= ((9+9) \times (9 \times (9+9) + 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3070 &:= 1 + ((1+1+1) \times ((1+1)^{11-1} - 1)) \\
&:= (2 \times ((2+2+2) \times 2^{2 \times (2+2)})) - 2 \\
&:= 3/3 + (33 \times ((3 \times (3^3 + 3)) + 3)) \\
&:= (4^4 \times ((4+4) + 4)) - (4+4)/4 \\
&:= 5^5 - 55 \\
&:= 66/6 + (((6-6/6)^{6-6/6}) - 66) \\
&:= 77/7 + (((7 \times 7 + 7)^{(7+7)/7}) - 77) \\
&:= (8 \times (8 \times (8 \times 8 - 8 - 8))) - (8+8)/8 \\
&:= 9/9 + (((9+9) \times (9 \times (9+9) + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3071 &:= ((1+1+1) \times (1+1)^{11-1}) - 1 \\
&:= (((2/2+2) \times 2^{22/2}) - 2)/2 \\
&:= ((3+3) \times ((3-3/3)^{3 \times 3})) - 3/3 \\
&:= (4^4 \times ((4+4) + 4)) - 4/4 \\
&:= 5^5 + (5/5 - 55) \\
&:= 6 + (((6-6/6)^{6-6/6}) - 66) + 6 \\
&:= (((7+7)/7 + 7) \times (7 \times 7 \times 7 - 7/7)) - 7 \\
&:= (8 \times (8 \times (8 \times 8 - 8 - 8))) - 8/8 \\
&:= (9+9)/9 + (((9+9) \times (9 \times (9+9) + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3072 &:= (1+1+1) \times (1+1)^{11-1} \\
&:= 2 \times ((2+2+2) \times 2^{2 \times (2+2)}) \\
&:= (3+3) \times ((3-3/3)^{3 \times 3}) \\
&:= 4^4 \times ((4+4) + 4) \\
&:= 5^5 + ((5+5)/5 - 55) \\
&:= (6 \times 6 + 6 + 6) \times ((6+6)/6)^6 \\
&:= (7-7/7) \times ((7/7+7)^{(7+7+7)/7}) \\
&:= 8 \times (8 \times (8 \times 8 - 8 - 8)) \\
&:= (((9+9)/9)^9) \times (9 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3073 &:= 1 + ((1+1+1) \times (1+1)^{11-1}) \\
&:= (((2/2+2) \times 2^{22/2}) + 2)/2 \\
&:= 3/3 + ((3+3) \times ((3-3/3)^{3 \times 3})) \\
&:= 4/4 + (4^4 \times ((4+4) + 4)) \\
&:= 5 + (5^5 - ((5+5)/5 + 55)) \\
&:= 6/6 + ((6 \times 6 + 6 + 6) \times ((6+6)/6)^6) \\
&:= 7 \times 7 \times (7 \times 7 + 7 + 7) - (7+7) \\
&:= 8/8 + (8 \times (8 \times (8 \times 8 - 8 - 8))) \\
&:= 9/9 + (((9+9)/9)^9) \times (9 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3074 &:= 1 + (1 + ((1+1+1) \times (1+1)^{11-1})) \\
&:= 2 + (2 \times ((2+2+2) \times 2^{2 \times (2+2)})) \\
&:= 333 + (((33/3+3)^3) - 3) \\
&:= (4+4)/4 + (4^4 \times ((4+4) + 4)) \\
&:= 5 + (5^5 - (55 + 5/5)) \\
&:= 66 + (((6+6)/6)^6 \times (66/6 + 6 \times 6)) \\
&:= 7/7 + (7 \times 7 \times (7 \times 7 + 7 + 7) - (7+7)) \\
&:= (8+8)/8 + (8 \times (8 \times (8 \times 8 - 8 - 8))) \\
&:= ((9+9)/9) \times ((9 \times (9 \times (9+9) + 9)) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3075 &:= (1+1+1) \times (1 + (1+1)^{11-1}) \\
&:= (2/2+2) \times ((2^{22/2} + 2)/2) \\
&:= 3 + ((3+3) \times ((3-3/3)^{3 \times 3})) \\
&:= 4 + ((4^4 \times ((4+4) + 4)) - 4/4) \\
&:= 5 + (5^5 - 55) \\
&:= 6 + (6 \times (6 \times 66 - 6) + ((6 \times 6 / (6+6))^6)) \\
&:= (7/7 + 7 + 7) \times (((7+7)/7)^7 + 77) \\
&:= 888 + ((88/8 - 8)^{8-8/8}) \\
&:= ((9+9) \times (9 \times (9+9) + 9)) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3076 &:= 1 + ((1+1+1) \times (1 + (1+1)^{11-1})) \\
&:= 2 \times (((2+2+2) \times 2^{2 \times (2+2)}) + 2) \\
&:= (((3 \times (3+3)) + 3)^3) - 33/3 \\
&:= 4 + (4^4 \times ((4+4) + 4)) \\
&:= 5 + ((5^5 - 55) + 5/5) \\
&:= 666 + (6 \times (6 \times 66 + 6) - ((6+6)/6)) \\
&:= 7 \times 7 \times (7 \times 7 + 7 + 7) - 77/7 \\
&:= ((8 \times 8 \times (88+8)) + 8) / ((8+8)/8) \\
&:= ((9+9) \times (9 \times (9+9) + 9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3077 &:= 1 + (1 + ((1+1+1) \times (1 + (1+1)^{11-1}))) \\
&:= 2 + ((2/2+2) \times ((2^{22/2} + 2)/2)) \\
&:= 333 + ((33/3+3)^3) \\
&:= 4 + ((4^4 \times ((4+4) + 4)) + 4/4) \\
&:= 5 + (((5+5)/5 - 55) + 5^5) \\
&:= 666 + (6 \times (6 \times 66 + 6) - 6/6) \\
&:= ((7-77)/7) + 7 \times 7 \times (7 \times 7 + 7 + 7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8 - 8))) - (88/8)) + 8) \\
&:= ((9+9) \times (9 \times (9+9) + 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3078 &:= (1+1+1) \times (1+1 + (1+1)^{11-1}) \\
&:= (2/2+2) \times ((2^{2 \times (2+2)+2}) + 2) \\
&:= 3 \times (3 \times 333 + 3^3) \\
&:= 4 + ((4^4 \times ((4+4) + 4)) + (4+4)/4) \\
&:= 5 + ((5^5 - ((5+5)/5 + 55)) + 5) \\
&:= 666 + 6 \times (6 \times 66 + 6) \\
&:= ((7+7)/7 + 7) \times (7 \times 7 \times 7 - 7/7) \\
&:= (8 - (8+8)/8) \times (8 \times 8 \times 8 + 8/8) \\
&:= (9+9) \times (9 \times (9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3079 &:= 1 + ((1+1+1) \times (1+1 + (1+1)^{11-1})) \\
&:= (2 \times (2 \times (22-2))^2) - (22/2)^2 \\
&:= 3 + (((3 \times (3+3)) + 3)^3) - 33/3 \\
&:= 4 + (((4^4 \times ((4+4) + 4)) - 4/4) + 4) \\
&:= 5 + ((5^5 - (55 + 5/5)) + 5) \\
&:= 6/6 + (6 \times (6 \times 66 + 6) + 666) \\
&:= 7 \times 7 \times (7 \times 7 + 7 + 7) - (7/7 + 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) - 8/8) \\
&:= 9/9 + ((9+9) \times (9 \times (9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3080 &:= ((111^{1+1}) - 1) / (1+1+1+1) \\
&:= (2 - 222) \times (2 - 2^{2+2}) \\
&:= 3 + (((33/3+3)^3) + 333) \\
&:= 4 + ((4^4 \times ((4+4) + 4)) + 4) \\
&:= 5 + ((5^5 - 55) + 5) \\
&:= 66/6 \times (((6+6)/6)^6 + 6 \times 6 \times 6) \\
&:= 7 \times 7 \times (7 \times 7 + 7 + 7) - 7 \\
&:= 8 + (8 \times (8 \times (8 \times 8 - 8 - 8))) \\
&:= (9+9)/9 + ((9+9) \times (9 \times (9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3081 &:= 1 + (((111^{1+1}) - 1) / (1+1+1+1)) \\
&:= 2/2 + ((2 - 222) \times (2 - 2^{2+2})) \\
&:= 3 + (3 \times (3 \times 333 + 3^3)) \\
&:= ((4/4 + 4)^{4+4/4}) - 44 \\
&:= 5^5 + (55/5 - 55) \\
&:= 6666 \times 6 / (6+6) - 6 \times (6 \times 6 + 6) \\
&:= 7/7 + (7 \times 7 \times (7 \times 7 + 7 + 7) - 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) + 8/8) \\
&:= 9 + (((9+9)/9)^9) \times (9 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3082 &:= 11 + (((1+1+1) \times (1+1)^{11-1}) - 1) \\
&:= 2 + ((2-222) \times (2 - 2^{2+2})) \\
&:= (((3 \times (3+3)) + 3)^3) + 3/3 - 3 - 3 \\
&:= (44-4)/4 + (4^4 \times ((4+4) + 4)) \\
&:= 5^5 + (((55+5)/5) - 55) \\
&:= (66+6/6) \times (((66-6)/6) + 6 \times 6) \\
&:= (7+7)/7 + (7 \times 7 \times (7 \times 7 + 7 + 7) - 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) + ((8+8)/8)) \\
&:= ((9+9)/9) \times ((9 \times (9 \times (9+9) + 9)) + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3083 &:= 11 + ((1 + 1 + 1) \times (1 + 1)^{11-1}) \\
&:= (((2/2 + 2) \times 2^{22/2}) + 22)/2 \\
&:= (((((3 \times (3 + 3)) + 3)^3) - 3)/3) - 3 \\
&:= 44/4 + (4^4 \times ((4 + 4) + 4)) \\
&:= 5^5 - (((5 + 5)/5)^5 + 5) \\
&:= ((6 - 6/6)^{6-6/6}) - (6 \times 6 + 6) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7 + 7) - (77/7)) \\
&:= 88/8 + (8 \times (8 \times (8 \times 8 - 8 - 8))) \\
&:= ((9 \times 9 + 9)/(9 + 9)) + ((9 + 9) \times (9 \times (9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3084 &:= 1 + (11 + ((1 + 1 + 1) \times (1 + 1)^{11-1})) \\
&:= 2 \times ((2 \times 22 - 2)^2 - 222) \\
&:= (((((3 \times (3 + 3)) + 3)^3)/3) - 3) \\
&:= (4 - 4/4) \times (4 \times 4^4 + 4) \\
&:= 5^5 - (55/5 + 5 \times 5 + 5) \\
&:= 6 + (6 \times (6 \times 66 + 6) + 666) \\
&:= (77/7 - 7) \times ((777 - 7) + 7/7) \\
&:= 8 + (((8 \times 8 \times (88 + 8)) + 8)/(8 + 8/8)) \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3085 &:= 1 + (1 + (11 + ((1 + 1 + 1) \times (1 + 1)^{11-1}))) \\
&:= 2 + (((2/2 + 2) \times 2^{22/2}) + 22)/2 \\
&:= (((((3 \times (3 + 3)) + 3)^3) - (3 + 3))/3) \\
&:= 4 + (((4/4 + 4)^{4+4/4}) - 44) \\
&:= 5 + (((5^5 - 55) + 5) + 5) \\
&:= ((6 + 6) \times (6 \times (6 \times 6 + 6) + 6)) - 66/6 \\
&:= 7 \times 7 \times (7 \times 7 + 7 + 7) - (7 + 7)/7 \\
&:= 88 + (888/8 \times (88/8 + 8 + 8)) \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3086 &:= 11 + ((1 + 1 + 1) \times (1 + (1 + 1)^{11-1})) \\
&:= (222 \times (2^{2+2} - 2)) - 22 \\
&:= (((((3 \times (3 + 3)) + 3)^3) - 3)/3) \\
&:= 4 + ((4^4 \times ((4 + 4) + 4)) + (44 - 4)/4) \\
&:= 5 + ((55/5 - 55) + 5^5) \\
&:= 6 + ((66/6) \times (((6 + 6)/6)^6 + 6 \times 6 \times 6)) \\
&:= 7 \times 7 \times (7 \times 7 + 7 + 7) - 7/7 \\
&:= 8 + ((8 - (8 + 8)/8) \times (8 \times 8 \times 8 + 8/8)) \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3087 &:= ((11 + (11 - 1))^{1+1+1})/(1 + 1 + 1) \\
&:= ((2/2 + 2 + 2) + 2) \times ((22 - 2/2)^2) \\
&:= (((3 \times (3 + 3)) + 3)^3)/3 \\
&:= 4 + ((4^4 \times ((4 + 4) + 4)) + 44/4) \\
&:= 5 + (((55 + 5)/5) - 55) + 5^5 \\
&:= ((6 - 6/6)^{6-6/6}) - ((6 + 6)/6 + 6 \times 6) \\
&:= 7 \times 7 \times (7 \times 7 + 7 + 7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8 - 8))) - 8/8) + 8) \\
&:= 9 + ((9 + 9) \times (9 \times (9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3088 &:= 1 + (((11 + (11 - 1))^{1+1+1})/(1 + 1 + 1)) \\
&:= 2 \times (2 \times 22^2 + ((22 + 2)^2)) \\
&:= (((((3 \times (3 + 3)) + 3)^3) + 3)/3) \\
&:= 4 \times ((4 \times (4 \times (44 + 4))) + 4) \\
&:= 5^5 - (((5 + 5)/5)^5 + 5) \\
&:= ((6 + 6)/6)^6 + (6 \times (6 + 6) \times (6 \times 6 + 6)) \\
&:= 7/7 + 7 \times 7 \times (7 \times 7 + 7 + 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) + 8) \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3089 &:= 11 + ((1 + 1 + 1) \times (1 + 1 + (1 + 1)^{11-1})) \\
&:= (2 \times (2 \times (22 - 2)^2) - 222)/2 \\
&:= 3 + (((((3 \times (3 + 3)) + 3)^3) - 3)/3) \\
&:= 4 \times 4 + ((4^4 \times ((4 + 4) + 4)) + 4/4) \\
&:= 5^5 - (55/5 + 5 \times 5) \\
&:= ((6 - 6/6)^{6-6/6}) - 6 \times 6 \\
&:= (7 + 7)/7 + 7 \times 7 \times (7 \times 7 + 7 + 7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8 - 8))) + 8/8) + 8) \\
&:= 99/9 + ((9 + 9) \times (9 \times (9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3090 &:= (1 + 1 + 1) \times ((1 + (11 + (1 + 1)^{11}))/ (1 + 1)) \\
&:= 2 + ((2 \times ((22 + 2)^2)) + (2 \times 22)^2) \\
&:= 3 + (((((3 \times (3 + 3)) + 3)^3)/3) \\
&:= 4 \times 4 + ((4^4 \times ((4 + 4) + 4)) + (4 + 4)/4) \\
&:= 5^5 - ((5 \times 5 + 5) + 5) \\
&:= 66 + (6 \times (6 + 6) \times (6 \times 6 + 6)) \\
&:= (7 + 7 + 7)/7 + 7 \times 7 \times (7 \times 7 + 7 + 7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8 - 8))) + ((8 + 8)/8)) + 8) \\
&:= (99 + 9)/9 + ((9 + 9) \times (9 \times (9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3091 &:= 11 + (((111^{1+1}) - 1)/(1 + 1 + 1 + 1)) \\
&:= 2 + ((2 \times (2 \times (22 - 2))^2) - 222/2) \\
&:= 3 + (((((3 \times (3 + 3)) + 3)^3) + 3)/3) \\
&:= 4 + (((4^4 \times ((4 + 4) + 4)) + 44/4) + 4) \\
&:= 5^5 + (5/5 - ((5 \times 5 + 5) + 5)) \\
&:= 66 + ((6 \times (6 + 6) \times (6 \times 6 + 6)) + 6/6) \\
&:= 77/7 + (7 \times 7 \times (7 \times 7 + 7 + 7) - 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) + (88/8)) \\
&:= 9999/9 + (99 \times (99/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3092 &:= 1 + (11 + (((111^{1+1}) - 1)/(1 + 1 + 1 + 1))) \\
&:= 2 \times ((2 \times 22^2 + ((22 + 2)^2)) + 2) \\
&:= 3 + (((((3 \times (3 + 3)) + 3)^3) - 3)/3) + 3 \\
&:= 4 + ((4^4 \times ((4 + 4) + 4)) + 4 \times 4) \\
&:= 5^5 - (((5 + 5)/5)^5 + 5/5) \\
&:= 66 + ((6 \times (6 + 6) \times (6 \times 6 + 6)) + ((6 + 6)/6)) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7 + 7) - ((7 + 7)/7)) \\
&:= 8 + (((8 \times 8 \times (88 + 8)) + 8)/(8 + 8/8)) + 8 \\
&:= (99999/9) - 9 \times 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3093 &:= (1 + 1 + 1 + 11) \times ((1 + 1) \times 111 - 1) - 1 \\
&:= 22 + (((2/2 + 2) \times 2^{22/2}) - 2)/2 \\
&:= 3 + (((((3 \times (3 + 3)) + 3)^3)/3) + 3) \\
&:= ((4/4 + 4)^{4+4/4}) - 4 \times (4 + 4) \\
&:= 5^5 - ((5 + 5)/5)^5 \\
&:= 6 \times 6 \times 66 + (((6 \times 6/(6 + 6))^6) - (6 + 6)) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7 + 7) - 7/7) \\
&:= (88/8 - 8) \times ((8 \times 8 \times (8 + 8) - 8/8) + 8) \\
&:= 99 + (((9 + 9 + 9)/9) \times (999 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3094 &:= (1 + (1 + 1 + 11)) \times ((1 + 1) \times 111 - 1) \\
&:= (22 + 2 + 2) \times ((22/2)^2 - 2) \\
&:= 3 + (((((3 \times (3 + 3)) + 3)^3) + 3)/3) + 3 \\
&:= 4^4 + (44/4 \times ((4 + 4)/4 + 4^4)) \\
&:= 5^5 - ((5 \times 5 + 5/5) + 5) \\
&:= ((6 + 6) \times (6 \times (6 \times 6 + 6) + 6)) - (6 + 6)/6 \\
&:= 7 + 7 \times 7 \times (7 \times 7 + 7 + 7) \\
&:= 8 + (((8 - (8 + 8)/8) \times (8 \times 8 \times 8 + 8/8)) + 8) \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) - ((9 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3095 &:= 1 + (1 + 1 + 1 + 11) \times ((1 + 1) \times 111 - 1) \\
&:= (((22 + 2) \times (2^{2 \times (2+2)} + 2)) - 2)/2 \\
&:= 3 \times 3 + (((((3 \times (3 + 3)) + 3)^3) - 3)/3) \\
&:= 44/4 + ((4 - 4/4) \times (4 \times 4^4 + 4)) \\
&:= 5^5 - (5 \times 5 + 5) \\
&:= 6 + (((6 - 6/6)^{6-6/6}) - 6 \times 6) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7 + 7) + 7/7) \\
&:= ((8 + 8 + 8) \times (8 \times (8 + 8) + 8/8)) - 8/8 \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) - 9/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3096 &:= ((1 + 1)^{1+1+1}) - (11 - 1)^{1+1+1} \\
&:= 2 \times ((2 + 2 + 2) \times (2^{2 \times (2+2)} + 2)) \\
&:= 3 \times (3 \times 333 + 33) \\
&:= (4 - 4/4) \times ((4 \times 4^4 + 4) + 4) \\
&:= 5^5 + (5/5 - (5 \times 5 + 5)) \\
&:= (6 + 6) \times (6 \times (6 \times 6 + 6) + 6) \\
&:= ((7 + 7)/7 + 7) \times (7 \times 7 \times 7 + 7/7) \\
&:= (8 + 8 + 8) \times (8 \times (8 + 8) + 8/8) \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3097 &:= 1 + (((1 + 1)^{1+1+1}) - (11 - 1)^{1+1+1}) \\
&:= (222 \times (2^{2+2} - 2)) - 22/2 \\
&:= 3 \times 3 + (((((3 \times (3 + 3)) + 3)^3) + 3)/3) \\
&:= 4 + (((4/4 + 4)^{4+4/4}) - 4 \times (4 + 4)) \\
&:= 5^5 + ((5 + 5)/5 - (5 \times 5 + 5)) \\
&:= 6/6 + ((6 + 6) \times (6 \times (6 \times 6 + 6) + 6)) \\
&:= ((77 - 7)/7) + 7 \times 7 \times (7 \times 7 + 7 + 7) \\
&:= 8/8 + ((8 + 8 + 8) \times (8 \times (8 + 8) + 8/8)) \\
&:= (9/9 + 9 + 9) \times (9 \times (9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3098 &:= 1 + (1 + (((1+1)^{1+11}) - (11-1)^{1+1+1})) \\
&:= 2 + (2 \times ((2+2+2) \times (2^{2 \times (2+2)} + 2))) \\
&:= (((3 \times (3+3)) + 3)^3) + 33/3 \\
&:= 4 + ((44/4 \times ((4+4)/4 + 4^4)) + 4^4) \\
&:= 5 + (5^5 - ((5+5)/5)^5) \\
&:= (6+6)/6 + ((6+6) \times (6 \times (6 \times 6 + 6) + 6)) \\
&:= 77/7 + 7 \times 7 \times (7 \times 7 + 7 + 7) \\
&:= (8+8)/8 + ((8+8+8) \times (8 \times (8+8) + 8/8)) \\
&:= 9 + (((9+9) \times (9 \times (9+9) + 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3099 &:= (1+1+1) \times (11 + ((1+1)^{11-1} - (1+1))) \\
&:= 2 + ((222 \times (2^{2+2} - 2)) - 22/2) \\
&:= 3 + (3 \times (3 \times 333 + 33)) \\
&:= 4 \times 4 + ((4^4 \times ((4+4) + 4)) + 44/4) \\
&:= 5^5 - (5 \times 5 + 5/5) \\
&:= 6 \times 6 \times 66 + (((6 \times 6)/(6+6))^6) - 6) \\
&:= (77+7)/7 + 7 \times 7 \times (7 \times 7 + 7 + 7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8 - 8))) + (88/8)) + 8) \\
&:= (999/9 \times ((9/9 + 9 + 9) + 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3100 &:= (1+1) \times ((11-1) \times (11 + (1+11)^{1+1})) \\
&:= 2 \times (((2+2+2) \times (2^{2 \times (2+2)} + 2)) + 2) \\
&:= 3 + ((3 \times (3 \times 333 + 33)) + 3/3) \\
&:= 4 + ((4-4/4) \times ((4 \times 4^4) + 4) + 4) \\
&:= 5^5 - 5 \times 5 \\
&:= (66 \times (66/6 + 6 \times 6)) - (6+6)/6 \\
&:= 7 + ((7 \times 7 \times (7 \times 7 + 7 + 7) - 7/7) + 7) \\
&:= ((8 \times (8 \times (88+8) + 8)) - 8)/(8+8)/8) \\
&:= (9/9 + 99) \times (((99+99)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3101 &:= ((1+1+1) \times (11 + ((1+1)^{11-1} - 1))) - 1 \\
&:= ((2/2 + 2 + 2) + 2) \times (((22 - 2/2)^2) + 2) \\
&:= 3 + (((3 \times (3+3)) + 3)^3) + 33/3) \\
&:= ((4-4/4) + 4) \times (444 - 4/4) \\
&:= 5^5 + (5/5 - 5 \times 5) \\
&:= (66 \times (66/6 + 6 \times 6)) - (6+6)/6 \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7 + 7) + 7) \\
&:= (8-8/8) \times (888/((8+8)/8) - 8/8) \\
&:= 9 + ((99999/9) - 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3102 &:= (1+1+1) \times (11 + ((1+1)^{11-1} - 1)) \\
&:= 22 \times (((22/2)^2 - 2) + 22) \\
&:= 3 + ((3 \times (3 \times 333 + 33)) + 3) \\
&:= (4-4/4) \times ((44-4)/4 + 4 \times 4^4) \\
&:= 5^5 + ((5+5)/5 - 5 \times 5) \\
&:= 66 \times (66/6 + 6 \times 6) \\
&:= 7 + ((7 \times 7 \times (7 \times 7 + 7 + 7) + 7/7) + 7) \\
&:= (((8+8)/8) + 8 \times 8) \times (8 \times 8 - (8/8 + 8 + 8)) \\
&:= 99/9 \times ((999/9 + 9 \times (9+9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3103 &:= 1 + ((1+1+1) \times (11 + ((1+1)^{11-1} - 1))) \\
&:= ((2/2 + 2 + 2)^{2/2+2+2}) - 22 \\
&:= 3^3 + (((3 \times (3+3)) + 3)^3) - 33/3) \\
&:= 4 \times (4+4) + ((4^4 \times ((4+4) + 4)) - 4/4) \\
&:= 5^5 - (55+55)/5 \\
&:= 6/6 + (66 \times (66/6 + 6 \times 6)) \\
&:= 7 + (((7+7)/7 + 7) \times (7 \times 7 \times 7 + 7/7)) \\
&:= 8 + (((8+8+8) \times (8 \times (8+8) + 8/8)) - 8/8) \\
&:= (99/9 + 9 + 9) \times ((99 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3104 &:= ((1+1+1) \times (11 + (1+1)^{11-1})) - 1 \\
&:= 2^{2+2} \times (((2^{2+2} - 2)^2) - 2) \\
&:= 3 + (((3 \times (3+3)) + 3)^3) + 33/3) + 3) \\
&:= 4 \times ((4 \times (4 \times (44+4))) + 4) + 4) \\
&:= 5 + (5^5 - (5 \times 5 + 5/5)) \\
&:= (6+6)/6 + (66 \times (66/6 + 6 \times 6)) \\
&:= (77/7 - 7) \times (777 - 7/7) \\
&:= 8 + ((8+8+8) \times (8 \times (8+8) + 8/8)) \\
&:= 9 + (((9+9) \times (9 \times (9+9) + 9)) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3105 &:= (1+1+1) \times (11 + (1+1)^{11-1}) \\
&:= (2/2 + 2) \times ((2^{22/2} + 22)/2) \\
&:= 3 \times ((3 \times 333 + 33) + 3) \\
&:= (4/4 + 4) \times ((4/4 + 4)^4 - 4) \\
&:= 5 + (5^5 - 5 \times 5) \\
&:= 6 \times 6 \times 66 + ((6 \times 6)/(6+6))^6) \\
&:= 7 + (7 \times 7 \times (7 \times 7 + 7 + 7) + (77/7)) \\
&:= 8 \times 88 + ((8-8/8)^{8 \times 8/(8+8)}) \\
&:= 9 + (((9+9) \times (9 \times (9+9) + 9)) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3106 &:= 1 + ((1+1+1) \times (11 + (1+1)^{11-1})) \\
&:= (222 \times (2^{2+2} - 2)) - 2 \\
&:= 3/3 + (3 \times ((3 \times 333 + 33) + 3)) \\
&:= 4/4 + ((4/4 + 4) \times ((4/4 + 4)^4 - 4)) \\
&:= 5 + ((5/5 - 5 \times 5) + 5^5) \\
&:= 6 + ((66 \times (66/6 + 6 \times 6)) - ((6+6)/6)) \\
&:= 77 \times (7 \times 7 - 7) - ((7+7)/7)^7 \\
&:= ((8 - (8+8)/8) \times ((8 \times 8 \times 8 - 8/8) + 8)) - 8 \\
&:= 9 + ((9/9 + 9 + 9) \times (9 \times (9+9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3107 &:= ((1+1) \times (111 \times (1 + (1+1+1)))) - 1 \\
&:= (222 \times (2^{2+2} - 2)) - 2/2 \\
&:= ((333 \times (3^3 + 3/3)) - 3)/3 \\
&:= (444 \times ((4-4/4) + 4)) - 4/4 \\
&:= 5 + (((5+5)/5 - 5 \times 5) + 5^5) \\
&:= ((6-6/6)^{6-6/6}) - 6 - 6 - 6 \\
&:= (777 \times (77/7 - 7)) - 7/7 \\
&:= 88/8 + ((8+8+8) \times (8 \times (8+8) + 8/8)) \\
&:= 9 + (((9+9) \times (9 \times (9+9) + 9)) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3108 &:= (1+1) \times (111 \times (1 + (1+1+1))) \\
&:= 222 \times (2^{2+2} - 2) \\
&:= (3^3 + 3/3) \times 333/3 \\
&:= 444 \times ((4-4/4) + 4) \\
&:= 5^5 - (((55+5)/5) + 5) \\
&:= 6 + (66 \times (66/6 + 6 \times 6)) \\
&:= 777 \times (77/7 - 7) \\
&:= (8-8/8) \times 888/((8+8)/8) \\
&:= 999/9 \times ((9/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3109 &:= 1 + ((1+1) \times (111 \times (1 + (1+1+1)))) \\
&:= 2/2 + (222 \times (2^{2+2} - 2)) \\
&:= ((333 \times (3^3 + 3/3)) + 3)/3 \\
&:= ((4/4 + 4)^{4+4/4}) - 4 \times 4 \\
&:= 5^5 - (55/5 + 5) \\
&:= 6 + ((66 \times (66/6 + 6 \times 6)) + 6/6) \\
&:= 7/7 + (777 \times (77/7 - 7)) \\
&:= 8/8 + ((8-8/8) \times 888/((8+8)/8)) \\
&:= 9 + ((9/9 + 99) \times (((99+99)/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3110 &:= (1+1) \times (1 + (111 \times (1 + (1+1+1)))) \\
&:= 2 + (222 \times (2^{2+2} - 2)) \\
&:= 3 + (((333 \times (3^3 + 3/3)) - 3)/3) \\
&:= 4/4 + (((4/4 + 4)^{4+4/4}) - 4 \times 4) \\
&:= 5^5 - (5 + 5 + 5) \\
&:= 6 + ((66 \times (66/6 + 6 \times 6)) + ((6+6)/6)) \\
&:= (7+7)/7 + (777 \times (77/7 - 7)) \\
&:= 888 + (((8+8)/8) \times 8888/8) \\
&:= 9 + (((99999/9) - 9 \times 9 \times 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3111 &:= 1 + ((1+1) \times (1 + (111 \times (1 + (1+1+1)))))) \\
&:= 2 + ((222 \times (2^{2+2} - 2)) + 2/2) \\
&:= 3 + ((3^3 + 3/3) \times 333/3) \\
&:= 4 + ((444 \times ((4-4/4) + 4)) - 4/4) \\
&:= 5^5 + (5/5 - (5 + 5 + 5)) \\
&:= 6 + (((6 \times 6)/(6+6))^6) + 6 \times 6 \times 66) \\
&:= 7 + ((77/7 - 7) \times (777 - 7/7)) \\
&:= (8/8 + 8 + 8) \times ((888/8 + 8 \times 8) + 8) \\
&:= 9 \times 99 + ((99/9 + 9) \times 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3112 &:= (1+1) \times (1 + (1 + (111 \times (1 + (1+1+1)))))) \\
&:= 2 + ((222 \times (2^{2+2} - 2)) + 2) \\
&:= 3 + (((333 \times (3^3 + 3/3)) + 3)/3) \\
&:= 4 + (444 \times ((4-4/4) + 4)) \\
&:= 5^5 - (55 + 5 + 5)/5 \\
&:= ((6+6)/6 + 6) \times (6 \times 66 - (6/6 + 6)) \\
&:= (77/7 - 7) \times (777 + 7/7) \\
&:= ((8 \times 8 - 8)^{(8+8)/8}) - 8 - 8 - 8 \\
&:= 9 + ((99/9 + 9 + 9) \times ((99 - 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3113 &:= 11 \times (((1+1) \times ((1+11)^{1+1} - (1+1))) - 1) \\
&:= 2 + (((222 \times (2^{2+2} - 2)) + 2/2) + 2) \\
&:= 3^3 + (((((3 \times (3+3)) + 3)^3) - 3)/3) \\
&:= 4 + (((4/4 + 4)^{4+4/4}) - 4 \times 4) \\
&:= 5^5 - (55+5)/5 \\
&:= ((6-6/6)^{6-6/6}) - 6 - 6 \\
&:= 7 + (77 \times (7 \times 7 - 7) - ((7+7)/7)^7) \\
&:= 88 + ((8 \times 8 - (8/8+8))^{(8+8)/8}) \\
&:= (9+9) \times (99/9 + 9 \times (9+9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3114 &:= ((1+111)/(1+1))^{1+1} - 11 - 11 \\
&:= ((2 \times (22+2+2+2))^2) - 22 \\
&:= 3 \times (3 \times (((3/3+3+3)^3) + 3)) \\
&:= ((4/4+4)^{4+4/4}) - 44/4 \\
&:= 5^5 - 55/5 \\
&:= 6 + ((66 \times (66/6+6 \times 6)) + 6) \\
&:= 7 + ((777 \times (77/7-7)) - 7/7) \\
&:= (8 - (8+8)/8) \times ((8 \times 8 \times 8 - 8/8) + 8) \\
&:= (9+9) \times (99/9 + 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3115 &:= ((1+111)/(1+1))^{1+1} - 11 - 11 + 1 \\
&:= 2/2 + (((2 \times (22+2+2+2))^2) - 22) \\
&:= 3^3 + (((((3 \times (3+3)) + 3)^3) + 3)/3) \\
&:= 44 + ((4^4 \times ((4+4)+4)) - 4/4) \\
&:= 5^5 - 5 - 5 \\
&:= (6-66)/6 + ((6-6/6)^{6-6/6}) \\
&:= 7 + (777 \times (77/7-7)) \\
&:= (8/8+88) \times ((88/8+8+8) + 8) \\
&:= 9/9 + ((9+9) \times (99/9 + 9 \times (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3116 &:= 11 + ((1+1+1) \times (11 + (1+1)^{11-1})) \\
&:= 2 + (((2 \times (22+2+2+2))^2) - 22) \\
&:= 3333 - ((3+3)^3 + 3/3) \\
&:= 44 + (4^4 \times ((4+4)+4)) \\
&:= 5^5 + (5/5 - 5 - 5) \\
&:= (((6-66)+6)/6) + ((6-6/6)^{6-6/6}) \\
&:= (7/7-77) \times ((7/7-7 \times 7) + 7) \\
&:= 8 + ((8-8/8) \times 888/(8+8)/8) \\
&:= (9/9+9+9) \times (((9+9)/9) + 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3117 &:= 1 + (11 + ((1+1+1) \times (11 + (1+1)^{11-1}))) \\
&:= 22/2 + ((222 \times (2^{2+2} - 2)) - 2) \\
&:= 3333 - (3+3)^3 \\
&:= ((4/4+4)^{4+4/4}) - 4 - 4 \\
&:= 5^5 + ((5+5)/5 - 5 - 5) \\
&:= ((6-6/6)^{6-6/6}) - ((6+6)/6+6) \\
&:= 7 + ((777 \times (77/7-7)) + ((7+7)/7)) \\
&:= ((8 \times 8 - 8)^{(8+8)/8}) - (88/8+8) \\
&:= 9 + (999/9 \times ((9/9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3118 &:= (1+1) \times (((1+1+11) \times (11^{1+1} - 1)) - 1) \\
&:= 2222 + (2 \times (2 \times (222+2))) \\
&:= 3/3 + (3333 - (3+3)^3) \\
&:= (((4+4)+4) \times (4^4+4)) - (4+4)/4 \\
&:= 5^5 - ((5+5)/5+5) \\
&:= ((6-6/6)^{6-6/6}) - 6/6 - 6 \\
&:= ((7 - ((7+7)/7))^{7-(7+7)/7}) - 7 \\
&:= (8-88)/8 + (((8 \times 8 - 8)^{(8+8)/8}) - 8) \\
&:= (99 \times (9 \times 9 - 9 - 9) - 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3119 &:= 11 + ((1+1) \times (111 \times (1 + (1+1+11)))) \\
&:= 22/2 + (222 \times (2^{2+2} - 2)) \\
&:= 33 + (((((3 \times (3+3)) + 3)^3) - 3)/3) \\
&:= (((4+4)+4) \times (4^4+4)) - 4/4 \\
&:= 5^5 - (5/5+5) \\
&:= ((6-6/6)^{6-6/6}) - 6 \\
&:= 7 + ((77/7-7) \times (777+7/7)) \\
&:= ((8 \times 8 - 8)^{(8+8)/8}) - (8/8+8+8) \\
&:= (99 \times (9 \times 9 - 9 - 9) + 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3120 &:= (1+1) \times ((1+1+11) \times (11^{1+1} - 1)) \\
&:= (22+2) \times ((2 \times 2^{2+2+2}) + 2) \\
&:= 3 + (3333 - (3+3)^3) \\
&:= ((4+4)+4) \times (4^4+4) \\
&:= 5^5 - 5 \\
&:= ((6+6)/6+6) \times (6 \times 66 - 6) \\
&:= (7/7+7) \times (7 \times (7 \times 7 + 7) - ((7+7)/7)) \\
&:= (8 - (8+8)/8) \times (8 \times 8 \times 8 + 8) \\
&:= (((9-9/9)+9) + 9) \times (999/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3121 &:= 1 + ((1+1) \times ((1+1+11) \times (11^{1+1} - 1))) \\
&:= ((2/2+2+2)^{2/2+2+2}) - 2 - 2 \\
&:= 33 + (((((3 \times (3+3)) + 3)^3) + 3)/3) \\
&:= ((4/4+4)^{4+4/4}) - 4 \\
&:= 5^5 + 5/5 - 5 \\
&:= 6/6 + (((6+6)/6+6) \times (6 \times 66 - 6)) \\
&:= ((7 \times 7 + 7)^{(7+7)/7}) - (7/7+7+7) \\
&:= 8/8 + ((8 - (8+8)/8) \times (8 \times 8 \times 8 + 8)) \\
&:= ((99+9) \times (99/9+9+9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3122 &:= (1 + (1+1+11)) \times (1 + (1+1) \times 111) \\
&:= (2^{2+2} - 2) \times (222 + 2/2) \\
&:= ((3-3/3+3)^{3-3/3+3}) - 3 \\
&:= 4/4 + (((4/4+4)^{4+4/4}) - 4) \\
&:= 5^5 + ((5+5)/5 - 5 - 5) \\
&:= ((6-6/6)^{6-6/6}) - 6 \times 6/(6+6) \\
&:= ((7 \times 7 + 7)^{(7+7)/7}) - (7+7) \\
&:= (8-8/8) \times (8 \times (8 \times 8 - 8) - ((8+8)/8)) \\
&:= 9 + (((9+9) \times (99/9+9 \times (9+9))) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3123 &:= 1 + (1+1+1+11) \times (1 + (1+1) \times 111) \\
&:= ((2/2+2+2)^{2/2+2+2}) - 2 \\
&:= 3 \times (3 \times (333+3) + 33) \\
&:= 4 + (((4+4)+4) \times (4^4+4)) - 4/4 \\
&:= 5^5 - (5+5)/5 \\
&:= ((6-6/6)^{6-6/6}) - (6+6)/6 \\
&:= 77 \times (7 \times 7 - 7) - 777/7 \\
&:= 8 + ((8/8+88) \times ((88/8+8+8) + 8)) \\
&:= 9 + ((9+9) \times (99/9+9 \times (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3124 &:= (1+1) \times (11 \times ((1+11)^{1+1} - (1+1))) \\
&:= 22 \times (((2 \times (2+2+2))^2) - 2) \\
&:= 3 + (((((3 \times (3+3)) + 3)^3) + 3)/3) + 33) \\
&:= 4 + (((4+4)+4) \times (4^4+4)) \\
&:= 5^5 - 5/5 \\
&:= ((6-6/6)^{6-6/6}) - 6/6 \\
&:= ((7-777)/7) + 77 \times (7 \times 7 - 7) \\
&:= (88/((8+8)/8)) \times ((8 \times 8 - 8/8) + 8) \\
&:= 9 + (((9+9) \times (99/9+9 \times (9+9))) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3125 &:= (1 + (1+1+1+1))^{1+1+1+1+1} \\
&:= (2/2+2+2)^{2/2+2+2} \\
&:= (3-3/3+3)^{3-3/3+3} \\
&:= (4/4+4)^{4+4/4} \\
&:= 5^5 \\
&:= (6-6/6)^{6-6/6} \\
&:= (7 - ((7+7)/7))^{7-(7+7)/7} \\
&:= ((8 \times 8 - 8)^{(8+8)/8}) - 88/8 \\
&:= ((9 \times 9 + 9)/(9+9))^{(9 \times 9 + 9)/(9+9)}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3126 &:= 1 + ((1 + (1+1+1+1))^{1+1+1+1+1}) \\
&:= 2 + (22 \times (((2 \times (2+2+2))^2) - 2)) \\
&:= 3 + (3 \times (3 \times (333+3) + 33)) \\
&:= 4/4 + ((4/4+4)^{4+4/4}) \\
&:= 5^5 + 5/5 \\
&:= 6/6 + ((6-6/6)^{6-6/6}) \\
&:= 7/7 + ((7 - ((7+7)/7))^{7-(7+7)/7}) \\
&:= (8-88)/8 + ((8 \times 8 - 8)^{(8+8)/8}) \\
&:= (9 - ((9+9+9)/9)) \times (((9+9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3127 &:= 1 + (1 + ((1 + (1+1+1+1))^{1+1+1+1+1})) \\
&:= 2 + ((2/2+2+2)^{2/2+2+2}) \\
&:= 3 + ((((((3 \times (3+3)) + 3)^3) + 3)/3) + 33) + 3) \\
&:= (4+4)/4 + ((4/4+4)^{4+4/4}) \\
&:= 5^5 + (5+5)/5 \\
&:= (6+6)/6 + ((6-6/6)^{6-6/6}) \\
&:= ((7 \times 7 + 7)^{(7+7)/7}) - ((7+7)/7+7) \\
&:= ((8 \times 8 - 8)^{(8+8)/8}) - (8/8+8) \\
&:= (((999+9)/(9+9))^{(9+9)/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3128 &:= (1+1) \times ((1+1)^{11} - ((11+11)^{1+1})) \\
&:= 2 \times (2^{22/2} - 22^2) \\
&:= 3 + ((3-3/3+3)^{3-3/3+3}) \\
&:= 4 + (((4+4)+4) \times (4^4+4)) + 4 \\
&:= 5 + (5^5 - ((5+5)/5)) \\
&:= (6 \times 6 / (6+6)) + (((6-6/6)^{6-6/6}) \\
&:= (7/7+7) \times (7 \times (7 \times 7+7) - 7/7) \\
&:= ((8 \times 8 - 8)^{(8+8)/8}) - 8 \\
&:= 9 \times 9 + (((9+9)/9)^{99/9}) + 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3129 &:= 1 + ((1+1) \times ((1+1)^{11} - ((11+11)^{1+1}))) \\
&:= 2 + (((2/2+2+2)^{2/2+2+2}) + 2) \\
&:= 33 + (3 \times (3 \times 333 + 33)) \\
&:= 4 + ((4/4+4)^{4+4/4}) \\
&:= 5 + (5^5 - 5/5) \\
&:= 6 + (((6-6/6)^{6-6/6}) - ((6+6)/6)) \\
&:= ((7 \times 7+7)^{(7+7)/7}) - 7 \\
&:= 8/8 + (((8 \times 8 - 8)^{(8+8)/8}) - 8) \\
&:= (9+9) \times (99+9 \times 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3130 &:= (1+1) \times (11 + (111 \times (1 + (1+1+11)))) \\
&:= 2 + (2 \times (2^{22/2} - 22^2)) \\
&:= 3^{3+3} + ((3/3+3+3)^{3/3+3}) \\
&:= 4 + (((4/4+4)^{4+4/4}) + 4/4) \\
&:= 5 + 5^5 \\
&:= 6 + (((6-6/6)^{6-6/6}) - 6/6) \\
&:= 7/7 + (((7 \times 7+7)^{(7+7)/7}) - 7) \\
&:= (8+8)/8 + (((8 \times 8 - 8)^{(8+8)/8}) - 8) \\
&:= (9/9+9) \times ((9+9) \times (9+9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3131 &:= 1 + ((1+1) \times (11 + (111 \times (1 + (1+1+11)))))) \\
&:= ((22/2+2) \times (22^2 - 2)/2) - 2 \\
&:= 3 + (((3-3/3+3)^{3-3/3+3}) + 3) \\
&:= 44/4 + (((4+4)+4) \times (4^4+4)) \\
&:= 5 + (5^5 + 5/5) \\
&:= 6 + ((6-6/6)^{6-6/6}) \\
&:= (7+7)/7 + (((7 \times 7+7)^{(7+7)/7}) - 7) \\
&:= 88/8 + ((8 - (8+8)/8) \times (8 \times 8 + 8 + 8)) \\
&:= ((99+9) \times (99/9+9+9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3132 &:= (1+11) \times (((1+1) \times ((11 \times (1+11)) - 1)) - 1) \\
&:= 2 \times (2^{22/2} - 22^2) + 2 \\
&:= (33+3) \times (3 \times 3^3 + 3+3) \\
&:= (4-4/4) \times (4 \times (4^4+4) + 4) \\
&:= 5 + ((5+5)/5 + 5^5) \\
&:= 6 \times (666 - (6+6) \times (6+6)) \\
&:= 7 + ((7 - ((7+7)/7))^{7-(7+7)/7}) \\
&:= (8/8+8) \times ((8 \times 88 - 8)/((8+8)/8)) \\
&:= (99+9) \times (99/9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3133 &:= (1+1+11) \times (((1+1) \times 11^{1+1}) - 1) \\
&:= (22/2+2) \times (22^2 - 2)/2 \\
&:= 3/3 + ((33+3) \times (3 \times 3^3 + 3+3)) \\
&:= 4 + (((4/4+4)^{4+4/4}) + 4) \\
&:= 5 + ((5^5 - ((5+5)/5)) + 5) \\
&:= 6 + (((6-6/6)^{6-6/6}) + ((6+6)/6)) \\
&:= ((7 \times 7+7)^{(7+7)/7}) - (7+7+7)/7 \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) - (88/8)) \\
&:= 9/9 + ((99+9) \times (99/9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3134 &:= ((1+111)/(1+1))^{1+1} - 1 - 1 \\
&:= ((2 \times (22+2+2+2))^2) - 2 \\
&:= 3 \times 3 + ((3-3/3+3)^{3+3-3/3}) \\
&:= 4 + (((4/4+4)^{4+4/4}) + 4/4) + 4 \\
&:= 5 + (5^5 - 5/5) + 5 \\
&:= 6 + (((6-6/6)^{6-6/6}) + (6 \times 6 / (6+6))) \\
&:= ((7 \times 7+7)^{(7+7)/7}) - (7+7)/7 \\
&:= ((8 \times 8 - 8)^{(8+8)/8}) - (8+8)/8 \\
&:= 9 + ((9 \times 9+9)/(9+9))^{(9 \times 9+9)/(9+9)}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3135 &:= ((1+111)/(1+1))^{1+1} - 1 \\
&:= ((2 \times (22+2+2+2))^2) - 2/2 \\
&:= 33 \times (3 \times 33 - (3/3+3)) \\
&:= ((4^4 - 4)/4) + (4^4 \times ((4+4) + 4)) \\
&:= 5 + (5^5 + 5) \\
&:= 66/6 \times (6 \times 66 - 666/6) \\
&:= ((7 \times 7+7)^{(7+7)/7}) - 7/7 \\
&:= ((8 \times 8 - 8)^{(8+8)/8}) - 8/8 \\
&:= 9 + ((9 - ((9+9+9)/9)) \times (((9+9)/9)^9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3136 &:= ((1+111)/(1+1))^{1+1} \\
&:= (2 \times (22+2+2+2))^2 \\
&:= (3^3 + 3/3) \times ((333+3)/3) \\
&:= 4 \times (4 \times ((4 \times (44+4)) + 4)) \\
&:= 5^5 + 55/5 \\
&:= 66/6 + ((6-6/6)^{6-6/6}) \\
&:= (7 \times 7+7)^{(7+7)/7} \\
&:= (8 \times 8 - 8)^{(8+8)/8} \\
&:= ((999+9)/(9+9))^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3137 &:= ((1+111)/(1+1))^{1+1} + 1 \\
&:= 2/2 + ((2 \times (22+2+2+2))^2) \\
&:= 33 \times 33 + (3 - 3/3)^{33/3} \\
&:= 4 + (((4/4+4)^{4+4/4}) + 4) + 4 \\
&:= 5^5 + (55+5)/5 \\
&:= 6 + (((6-6/6)^{6-6/6}) + 6) \\
&:= 7/7 + ((7 \times 7+7)^{(7+7)/7}) \\
&:= 8/8 + ((8 \times 8 - 8)^{(8+8)/8}) \\
&:= 9/9 + (((999+9)/(9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3138 &:= ((1+111)/(1+1))^{1+1} + 1 + 1 \\
&:= 2 + ((2 \times (22+2+2+2))^2) \\
&:= 3 + (33 \times (3 \times 33 - (3/3+3))) \\
&:= (4+4)/4 + (4 \times (4 \times ((4 \times (44+4)) + 4))) \\
&:= 5^5 + (55+5+5)/5 \\
&:= 6 + (6 \times (666 - (6+6) \times (6+6))) \\
&:= (7+7)/7 + ((7 \times 7+7)^{(7+7)/7}) \\
&:= (8+8)/8 + (((8 \times 8 - 8)^{(8+8)/8}) \\
&:= 9 + (((9+9) \times (99+9 \times 9)) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3139 &:= ((1+111)/(1+1))^{1+1} + 1 + 1 + 1 \\
&:= 2 + (((2 \times (22+2+2+2))^2) + 2/2) \\
&:= 3 + ((3^3 + 3/3) \times ((333+3)/3)) \\
&:= 4 + ((4^4 \times ((4+4) + 4)) + ((4^4 - 4)/4)) \\
&:= 5 + (((5^5 - 5/5) + 5) + 5) \\
&:= ((6 \times 6 + 6/6) + 6) \times (66 + 6/6 + 6) \\
&:= 77 + (7 - (7+7)/7)^{7-(7+7)/7} + 7 \\
&:= 88/8 + (((8 \times 8 - 8)^{(8+8)/8}) - 8) \\
&:= 9 + ((9/9+9) \times ((9+9) \times (9+9) - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3140 &:= ((1+111)/(1+1))^{1+1} + 1 + 1 + 1 + 1 \\
&:= 2 + (((2 \times (22+2+2+2))^2) + 2) \\
&:= ((33/3+3)^3) + (33 \times (3 \times 3+3)) \\
&:= 4 + (4 \times (4 \times ((4 \times (44+4)) + 4))) \\
&:= 5 + (5^5 + 5 + 5) \\
&:= (6-6/6) \times (666 - ((6+6)/6 + 6 \times 6)) \\
&:= 77/7 + (((7 \times 7+7)^{(7+7)/7}) - 7) \\
&:= (8/((8+8)/8)) + ((8 \times 8 - 8)^{(8+8)/8}) \\
&:= (9/9+9) \times ((9+9) \times (9+9) - (9/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3141 &:= ((1+111)/(1+1))^{1+1} + 1 + 1 + 1 + 1 + 1 \\
&:= 2 + (((2 \times (22+2+2+2))^2) + 2/2) + 2 \\
&:= (33 \times (3 \times 33 - 3)) - 3^3 \\
&:= 4 \times 4 + ((4/4+4)^{4+4/4}) \\
&:= 5 + (55/5 + 5^5) \\
&:= 6 \times (6 \times 66 + 6) + ((6 \times 6 / (6+6))^6) \\
&:= 7 + (((7 \times 7+7)^{(7+7)/7}) - ((7+7)/7)) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) - (88/8)) + 8 \\
&:= ((9+9) \times (99+9 \times 9)) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3142 &:= (1+1) \times ((11 \times (11 \times (1+1+11))) - (1+1)) \\
&:= 2 + (((2 \times (22+2+2+2))^2) + 2) + 2 \\
&:= 3/3 + ((33 \times (3 \times 33 - 3)) - 3^3) \\
&:= 4 \times 4 + (((4/4+4)^{4+4/4}) + 4/4) \\
&:= 5 + (((55+5)/5) + 5^5) \\
&:= 6 + (((6-6/6)^{6-6/6}) + (66/6)) \\
&:= 7 + (((7 \times 7+7)^{(7+7)/7}) - 7/7) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) - ((8+8)/8)) \\
&:= 9/9 + (((9+9) \times (99+9 \times 9)) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3143 &:= ((1+1) \times ((1+11) \times ((11 \times (1+11)) - 1))) - 1 \\
&:= (((22^2 \times (22/2 + 2)) - 2)/2) - 2 \\
&:= 3 + (((33/3 + 3)^3) + (33 \times (3 \times 3 + 3))) \\
&:= ((4 - 4/4) + 4) \times ((444 + 4/4) + 4) \\
&:= 5 + ((55 + 5 + 5)/5 + 5^5) \\
&:= 6 + (((6 - 6/6)^{6-6/6}) + 6) + 6 \\
&:= 7 + ((7 \times 7 + 7)^{(7+7)/7}) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) - 8/8) \\
&:= (9+9)/9 + (((9+9) \times (99+9 \times 9)) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3144 &:= (1+1) \times ((1+11) \times ((11 \times (1+11)) - 1)) \\
&:= 2 \times (2 \times (((22 + 2 + 2 + 2)^2) + 2)) \\
&:= 3 + ((33 \times (3 \times 33 - 3)) - 3^3) \\
&:= 4 + ((4 \times (4 \times ((4 \times (44 + 4)) + 4))) + 4) \\
&:= 5 \times 5 + (5^5 - (5/5 + 5)) \\
&:= (6 - ((6 + 6)/6)) \times (66 \times (6 + 6) - 6) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) + 7/7) \\
&:= 8 + ((8 \times 8 - 8)^{(8+8)/8}) \\
&:= (99+9)/9 \times ((9 \times (9+9) + 99) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3145 &:= ((1+1) \times (11 \times (11 \times (1+1+11)))) - 1 \\
&:= ((22^2 \times (22/2 + 2)) - 2)/2 \\
&:= 3 + (((33 \times (3 \times 33 - 3)) - 3^3) + 3/3) \\
&:= (4/4 + 4) \times ((4/4 + 4)^4 + 4) \\
&:= 5 \times 5 + (5^5 - 5) \\
&:= (6 - 6/6) \times (666 - (6 \times 6 + 6/6)) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) + ((7+7)/7)) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) + 8/8) \\
&:= 9 + (((999+9)/9) + 9)^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3146 &:= (1+1) \times (11 \times (11 \times (1+1+11))) \\
&:= 22 \times ((22/2)^2 + 22) \\
&:= 33/3 \times 33/3 \times (3^3 - 3/3) \\
&:= 4/4 + ((4/4 + 4) \times ((4/4 + 4)^4 + 4)) \\
&:= 5 + ((55/5 + 5^5) + 5) \\
&:= 66/6 \times (((6+6)/6)^6 + 6 \times 6 \times 6) + 6 \\
&:= 77/7 \times (7 \times (7 \times 7 - 7) - (7/7 + 7)) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) + ((8+8)/8)) \\
&:= 99 + (((9+9)/9)^{99/9} + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3147 &:= ((1+111)/(1+1))^{1+1} + 11 \\
&:= ((22^2 \times (22/2 + 2)) + 2)/2 \\
&:= (3 \times (3^3 \times (33 + 3 + 3) - 3)) - 3 \\
&:= 44/4 + (4 \times (4 \times ((4 \times (44 + 4)) + 4))) \\
&:= 5^5 + (55 + 55)/5 \\
&:= 6 + (6 \times (6 \times 66 + 6) + ((6 \times 6)/(6+6))^6) \\
&:= 77/7 + ((7 \times 7 + 7)^{(7+7)/7}) \\
&:= 88/8 + ((8 \times 8 - 8)^{(8+8)/8}) \\
&:= (9+9+9) \times (99+9+9) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3148 &:= 1111 + ((1+1)^{11} - 11) \\
&:= 2 + (22 \times ((22/2)^2 + 22)) \\
&:= (3 \times 3^3 \times (33 + 3 + 3)) - 33/3 \\
&:= 4444 - ((4+4)/4 + 4)^4 \\
&:= 5 \times 5 + (5^5 - ((5+5)/5)) \\
&:= 6 + (((6 - 6/6)^{6-6/6}) + (66/6)) + 6 \\
&:= (77 + 7)/7 + ((7 \times 7 + 7)^{(7+7)/7}) \\
&:= ((88 + 8)/8) + ((8 \times 8 - 8)^{(8+8)/8}) \\
&:= ((9+9+9) \times (99+9+9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3149 &:= 1 + (1111 + ((1+1)^{11} - 11)) \\
&:= 2 + (((22^2 \times (22/2 + 2)) + 2)/2) \\
&:= (3 \times (3^3 \times (33 + 3 + 3) - 3)) - 3/3 \\
&:= 4 + ((4/4 + 4) \times ((4/4 + 4)^4 + 4)) \\
&:= 5 \times 5 + (5^5 - 5/5) \\
&:= (66 + 6/6) \times (66/6 + 6 \times 6) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) - 7/7) + 7 \\
&:= 88 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) - (88/8)) \\
&:= ((9+9+9) \times (99+9+9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3150 &:= 1 + (1 + (1111 + ((1+1)^{11} - 11))) \\
&:= 2 + ((22 \times ((22/2)^2 + 22)) + 2) \\
&:= 3 \times (3^3 \times (33 + 3 + 3) - 3) \\
&:= (4/4 + 4) \times (((4/4 + 4)^4 + 4/4) + 4) \\
&:= 5 \times 5 + 5^5 \\
&:= (6 - 6 \times 6) \times (6 - 666/6) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) + 7) \\
&:= (8 - 8/8) \times (8 \times (8 \times 8 - 8) + ((8+8)/8)) \\
&:= 9 \times (((9+9)/9)^9) - 9 \times (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3151 &:= 1 + (1 + (1 + (1111 + ((1+1)^{11} - 11)))) \\
&:= 2 + (((22^2 \times (22/2 + 2)) + 2)/2) + 2 \\
&:= 3/3 + (3 \times (3^3 \times (33 + 3 + 3) - 3)) \\
&:= (4 \times ((4 \times ((4 \times (44 + 4)) + 4)) + 4)) - 4/4 \\
&:= 5 \times 5 + (5^5 + 5/5) \\
&:= 6/6 + ((6 - 6 \times 6) \times (6 - 666/6)) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) + 7/7) + 7 \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) - 8/8) + 8 \\
&:= 9/9 + (9 \times (((9+9)/9)^9) - 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3152 &:= (1+1) \times (1 + (1 + (1 + (11 \times (11 \times (1+1+11)))))) \\
&:= 2 \times ((2 \times (22 - 2))^2 - (22 + 2)) \\
&:= 3^3 + ((3 - 3/3 + 3)^{3-3/3+3}) \\
&:= 4 \times ((4 \times ((4 \times (44 + 4)) + 4)) + 4) \\
&:= 5 \times 5 + ((5+5)/5 + 5^5) \\
&:= ((6+6)/6 + 6) \times (6 \times 66 - ((6+6)/6)) \\
&:= (7/7 + 7) \times (7 \times (7 \times 7 + 7) + ((7+7)/7)) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) + 8) \\
&:= (9+9)/9 + (9 \times (((9+9)/9)^9) - 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3153 &:= 1111 + ((1+1)^{11} - ((1+1) \times (1+1+1))) \\
&:= 2/2 + (2 \times ((2 \times (22 - 2))^2 - (22 + 2))) \\
&:= 3 + (3 \times (3^3 \times (33 + 3 + 3) - 3)) \\
&:= (4 - 4/4)^4 + (4^4 \times ((4+4) + 4)) \\
&:= 5 + ((5^5 - ((5+5)/5)) + 5 \times 5) \\
&:= 666 + (666/6 + 6 \times 6 \times 66) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) + ((77 - 7)/7)) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) + 8/8) + 8 \\
&:= 9 \times 9 + (((9+9)/9)^9) \times (9 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3154 &:= 1111 + ((1+1)^{11} - (1 + (1 + 1 + 1 + 1))) \\
&:= (2 \times ((2 \times (22 - 2))^2 - 22)) - 2 \\
&:= (33 \times (3 \times 33 - 3)) - (33/3 + 3) \\
&:= 4 + ((4/4 + 4) \times (((4/4 + 4)^4 + 4/4) + 4)) \\
&:= 5 + ((5^5 - 5/5) + 5 \times 5) \\
&:= (((6+6)/6 + 6) \times (6 \times 66 - 6/6)) - 6 \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) + (77/7)) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) + ((8+8)/8) + 8) \\
&:= 9 + (((999+9)/9) + 9)^{(9+9)/9} + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3155 &:= 1111 + ((1+1)^{11} - (1 + 1 + 1 + 1)) \\
&:= (2 \times ((2 \times (22 - 2))^2 - 22)) - 2/2 \\
&:= (3 \times 33 \times 33) - ((333 + 3)/3) \\
&:= 4^4 \times (4 + 4) + (4444/4 - 4) \\
&:= 5 + (5 \times 5 + 5^5) \\
&:= 6 \times 6 + (((6 - 6/6)^{6-6/6}) - 6) \\
&:= 77 \times (7 \times 7 - 7) - ((7+7)/7 + 77) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) + (88/8)) \\
&:= 9 + (((9+9)/9)^{99/9} + 999) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3156 &:= (1+11) \times (((1+1) \times (11 \times (1+11))) - 1) \\
&:= 2 \times ((2 \times (22 - 2))^2 - 22) \\
&:= (3 \times 3^3 \times (33 + 3 + 3)) - 3 \\
&:= 4 + (4 \times ((4 \times ((4 \times (44 + 4)) + 4)) + 4)) \\
&:= 5 + ((5 \times 5 + 5^5) + 5/5) \\
&:= (66 \times (6 \times 6 + 6 + 6)) - 6 - 6 \\
&:= 77 \times (7 \times 7 - 7) - 7/7 - 77 \\
&:= (((88 \times (8 \times 8 + 8)) - 8)/((8+8)/8)) - 8 \\
&:= ((9+9+9)/9) \times ((9 \times (99+9+9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3157 &:= 11 \times (((1+1) \times (1+11))^{1+1}) - 1 \\
&:= 22/2 \times (((22+2)^2) - 2)/2 \\
&:= (33 \times (3 \times 33 - 3)) - 33/3 \\
&:= 4 \times (4 + 4) + ((4/4 + 4)^{4+4/4}) \\
&:= 5^5 + ((5+5)/5)^5 \\
&:= (66 \times (6 \times 6 + 6 + 6)) - 66/6 \\
&:= 77 \times (7 \times 7 - (7/7 + 7)) \\
&:= 88/8 \times ((888/8 + 88) + 88) \\
&:= ((9+9+9) \times (99+9+9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3158 &:= 1111 + ((1+1)^{11} - 1) \\
&:= 2 + (2 \times ((2 \times (22 - 2))^2 - 22)) \\
&:= (3 \times 3^3 \times (33 + 3 + 3)) - 3/3 \\
&:= 4^4 \times (4 + 4) + (4444 - 4)/4 \\
&:= 5^5 + (((5+5)/5)^5 + 5/5) \\
&:= (6 - 66)/6 + (66 \times (6 \times 6 + 6 + 6)) \\
&:= 7/7 + (77 \times (7 \times 7 - (7/7 + 7))) \\
&:= 8 + ((8 - 8/8) \times (8 \times (8 \times 8 - 8) + ((8+8)/8))) \\
&:= ((9+9+9) \times (99+9+9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3159 &:= 1111 + (1+1)^{11} \\
&:= 2^{22/2} + 2222/2 \\
&:= 3 \times 3^3 \times (33 + 3 + 3) \\
&:= 4^4 \times (4 + 4) + 4444/4 \\
&:= 5 + (((5^5 - 5/5) + 5 \times 5) + 5) \\
&:= 6 \times 6 + (((6 - 6/6)^{6-6/6}) - ((6+6)/6)) \\
&:= (7+7)/7 + (77 \times (7 \times 7 - (7/7 + 7))) \\
&:= 88 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) - 8/8) \\
&:= (9+9+9) \times (99+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3160 &:= 1 + (1111 + (1+1)^{11}) \\
&:= 2 \times (((2 \times (22 - 2))^2 - 22) + 2) \\
&:= 3/3 + (3 \times 3^3 \times (33 + 3 + 3)) \\
&:= 44 + ((4^4 \times ((4+4) + 4)) + 44) \\
&:= 5 + ((5 \times 5 + 5^5) + 5) \\
&:= ((6+6)/6 + 6) \times (6 \times 66 - 6/6) \\
&:= 777 + (7 \times 7 \times 7 \times 7 - (7/7 + 7)) \\
&:= 88 + (8 \times (8 \times (8 \times 8 - 8 - 8))) \\
&:= 9/9 + ((9+9+9) \times (99+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3161 &:= 1 + (1 + (1111 + (1+1)^{11})) \\
&:= 2 + ((2222/2) + 2^{22/2}) \\
&:= 3 + ((3 \times 3^3 \times (33 + 3 + 3)) - 3/3) \\
&:= 4 + (((4/4 + 4)^{4+4/4}) + 4 \times (4 + 4)) \\
&:= 5 \times 5 + (55/5 + 5^5) \\
&:= 6 \times 6 + (((6 - 6/6)^{6-6/6}) - 7) \\
&:= ((7 - 7/7) \times (7 \times 77 - (7/7))) - 7 \\
&:= 8/8 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) + 88) \\
&:= (9+9)/9 + ((9+9+9) \times (99+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3162 &:= 1 + (1 + (1 + (1111 + (1+1)^{11}))) \\
&:= (2 + 2 + 2) \times ((22 + 2/2)^2 - 2) \\
&:= 3 + (3 \times 3^3 \times (33 + 3 + 3)) \\
&:= 4 + ((4444 - 4)/4 + 4^4 \times (4 + 4)) \\
&:= 5 + (((5+5)/5)^5 + 5^5) \\
&:= (66 \times (6 \times 6 + 6 + 6)) - 6 \\
&:= (7 - 7/7) \times (7 \times 77 - (77 + 7)/7) \\
&:= 88 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) + ((8+8)/8)) \\
&:= ((9+9+9)/9) + ((9+9+9) \times (99+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3163 &:= 1 + (1 + (1 + (1 + (1111 + (1+1)^{11})))) \\
&:= 2 + (((2222/2) + 2^{22/2}) + 2) \\
&:= 3 + ((3 \times 3^3 \times (33 + 3 + 3)) + 3/3) \\
&:= 4 + (4444/4 + 4^4 \times (4 + 4)) \\
&:= 5 + (((5+5)/5)^5 + 5^5) + 5/5 \\
&:= 6/6 + (((66 \times (6 \times 6 + 6 + 6)) - 6) \\
&:= 7 + (77 \times (7 \times 7 - 7) - (7/7 + 77)) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) + (88/8)) + 8 \\
&:= 9 + (((((999+9)/(9+9))^{(9+9)/9}) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3164 &:= (1+1) \times ((11 \times (1+11)^{1+1}) - (1+1)) \\
&:= 2 \times ((2 \times (22 \times (2+2+2)^2)) - 2) \\
&:= (33 \times (3 \times 33 - 3)) - (3/3 + 3) \\
&:= 44 + (((4+4) + 4) \times (4^4 + 4)) \\
&:= 55 + (5^5 - (55/5 + 5)) \\
&:= (6+6)/6 + ((66 \times (6 \times 6 + 6 + 6)) - 6) \\
&:= 7 + (77 \times (7 \times 7 - (7/7 + 7))) \\
&:= ((88 \times (8 \times 8 + 8)) - 8)/((8+8)/8) \\
&:= ((9/9 + 9 + 9) + 9) \times ((999+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3165 &:= ((1+1) \times ((11 \times (1+11)^{1+1}) - 1)) - 1 \\
&:= (22 \times ((2 \times (2+2+2))^2)) - 2/2 - 2 \\
&:= (33 \times (3 \times 33 - 3)) - 3 \\
&:= 44 + (((4/4 + 4)^{4+4/4}) - 4) \\
&:= 5 + (((5 \times 5 + 5^5) + 5) + 5) \\
&:= (66 \times (6 \times 6 + 6 + 6)) - 6 \times 6/(6+6) \\
&:= 7 + ((77 \times (7 \times 7 - (7/7 + 7))) + 7/7) \\
&:= 8/8 + (((88 \times (8 \times 8 + 8)) - 8)/((8+8)/8)) \\
&:= ((99 \times 99 - 9)/(9+9+9)/9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3166 &:= (1+1) \times ((11 \times (1+11)^{1+1}) - 1) \\
&:= (22 \times ((2 \times (2+2+2))^2)) - 2 \\
&:= 3/3 + ((33 \times (3 \times 33 - 3)) - 3) \\
&:= (44 \times ((4 \times 4 \times 4 + 4) + 4)) - (4+4)/4 \\
&:= 5 + ((55/5 + 5^5) + 5 \times 5) \\
&:= (66 \times (6 \times 6 + 6 + 6)) - (6+6)/6 \\
&:= 7 + ((77 \times (7 \times 7 - (7/7 + 7))) + ((7+7)/7)) \\
&:= 88 + ((8 - (8+8)/8) \times (8 \times 8 \times 8 + 8/8)) \\
&:= 9 + (((9+9+9) \times (99+9+9)) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3167 &:= ((1+1) \times (11 \times (1+11)^{1+1})) - 1 \\
&:= (22 \times ((2 \times (2+2+2))^2)) - 2/2 \\
&:= (33 \times (3 \times 33 - 3)) - 3/3 \\
&:= (44 \times ((4 \times 4 \times 4 + 4) + 4)) - 4/4 \\
&:= 5 + (((5+5)/5)^5 + 5^5) + 5 \\
&:= (66 \times (6 \times 6 + 6 + 6)) - 6/6 \\
&:= 777 + (7 \times 7 \times 7 \times 7 - (7/7)) \\
&:= (8 \times ((88 \times (8 \times 8 + 8))/(8+8))) - 8/8 \\
&:= 9 + (((9+9+9) \times (99+9+9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3168 &:= (1+1) \times (11 \times (1+11)^{1+1}) \\
&:= 22 \times ((2 \times (2+2+2))^2) \\
&:= 33 \times (3 \times 33 - 3) \\
&:= 44 \times ((4 \times 4 \times 4 + 4) + 4) \\
&:= 55 + (5^5 - ((55+5)/5)) \\
&:= 66 \times (6 \times 6 + 6 + 6) \\
&:= (7 - 7/7) \times (7 \times 77 - (77/7)) \\
&:= 8 \times ((88 \times (8 \times 8 + 8))/(8+8)) \\
&:= 9 + ((9+9+9) \times (99+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3169 &:= 1 + ((1+1) \times (11 \times (1+11)^{1+1})) \\
&:= 2/2 + (22 \times ((2 \times (2+2+2))^2)) \\
&:= 3/3 + (33 \times (3 \times 33 - 3)) \\
&:= 44 + (((4/4 + 4)^{4+4/4}) \\
&:= 55 + (5^5 - (55/5)) \\
&:= 6/6 + (66 \times (6 \times 6 + 6 + 6)) \\
&:= 7777/7 + 7 \times 7 \times (7 \times 7 - 7) \\
&:= 8/8 + (8 \times ((88 \times (8 \times 8 + 8))/(8+8))) \\
&:= 9 + (((9+9+9) \times (99+9+9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3170 &:= 11 + (1111 + (1+1)^{11}) \\
&:= 2 + (22 \times ((2 \times (2+2+2))^2)) \\
&:= 3 + ((33 \times (3 \times 33 - 3)) - 3/3) \\
&:= 44 + (((4/4 + 4)^{4+4/4}) + 4/4) \\
&:= 55 + (5^5 - 5 - 5) \\
&:= (6+6)/6 + (66 \times (6 \times 6 + 6 + 6)) \\
&:= 777 + (7 \times 7 \times 7 \times 7 - (7/7 + 7)) \\
&:= (8+8)/8 + (8 \times ((88 \times (8 \times 8 + 8))/(8+8))) \\
&:= 99/9 + ((9+9+9) \times (99+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3171 &:= 1 + (11 + (1111 + (1+1)^{11})) \\
&:= 2 + ((22 \times ((2 \times (2+2+2))^2)) + 2/2) \\
&:= 3 + (33 \times (3 \times 33 - 3)) \\
&:= 4 + ((44 \times ((4 \times 4 \times 4 + 4) + 4)) - 4/4) \\
&:= 55 + ((5/5 - 5 - 5) + 5^5) \\
&:= (6 \times 6/(6+6)) + (66 \times (6 \times 6 + 6 + 6)) \\
&:= 777 + (7 \times 7 \times 7 \times 7 - 7) \\
&:= 88 + ((8 \times (8 \times (8 \times 8 - 8 - 8))) + (88/8)) \\
&:= 99 + (((9+9)/9)^9) \times (9 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3172 &:= (1+1) \times (1 + (1 + (11 \times (1+11)^{1+1}))) \\
&:= 2 + ((22 \times ((2 \times (2+2+2))^2)) + 2) \\
&:= 3 + ((33 \times (3 \times 33 - 3)) + 3/3) \\
&:= 4 + (44 \times ((4 \times 4 \times 4 + 4) + 4)) \\
&:= 5 + ((5+5)/5)^5 + 5^5 + 5 + 5 \\
&:= 6 + ((66 \times (6 \times 6 + 6 + 6)) - ((6+6)/6)) \\
&:= 7/7 + ((7 \times 7 \times 7 \times 7 - 7) + 777) \\
&:= ((88 \times (8 \times 8 + 8)) + 8)/((8+8)/8) \\
&:= 9 \times (9+9) \times (9+9) + (((9+9)/9)^{9-9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3173 &:= 1 + ((1 + 1) \times (1 + (1 + (11 \times (1 + 11)^{1+1})))) \\
&:= ((2 + 2 + 2) \times ((22 + 2/2)^2)) - 2/2 \\
&:= 3 + (((33 \times (3 \times 33 - 3)) - 3/3) + 3) \\
&:= 4 + (((4/4 + 4)^{4+4/4}) + 44) \\
&:= 55 + (5^5 - ((5 + 5)/5 + 5)) \\
&:= 6 + ((66 \times (6 \times 6 + 6 + 6)) - 6/6) \\
&:= 77 + (((7 + 7)/7 + 7) \times (7 \times 7 \times 7 + 7/7)) \\
&:= 8/8 + (((88 \times (8 \times 8 + 8)) + 8)/(8 + 8)/8) \\
&:= (9 \times (9 - 9 \times 99)) + (99999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3174 &:= (1 + 1) \times (1 + (1 + (1 + (11 \times (1 + 11)^{1+1})))) \\
&:= (2 + 2 + 2) \times ((22 + 2/2)^2) \\
&:= 3 + ((33 \times (3 \times 33 - 3)) + 3) \\
&:= ((4^4 + 4)/4 + 4) \times ((4 + 4)/4 + 44) \\
&:= 55 + (5^5 - (5/5 + 5)) \\
&:= 6 + (66 \times (6 \times 6 + 6 + 6)) \\
&:= 7 \times 7 + ((7 - ((7 + 7)/7))^{7-(7+7)/7}) \\
&:= (8 - (8 + 8)/8) \times (((8 \times 8 \times 8 + 8/8) + 8) + 8) \\
&:= 9 + (((99 \times 99 - 9)/(9 + 9 + 9)/9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3175 &:= 1 + ((1 + 1) \times (1 + (1 + (1 + (11 \times (1 + 11)^{1+1})))))) \\
&:= 2/2 + ((2 + 2 + 2) \times ((22 + 2/2)^2)) \\
&:= 3 + (((33 \times (3 \times 33 - 3)) + 3/3) + 3) \\
&:= 4 + (((44 \times ((4 \times 4 \times 4 + 4) + 4)) - 4/4) + 4) \\
&:= 55 + (5^5 - 5) \\
&:= 6 + ((66 \times (6 \times 6 + 6 + 6)) + 6/6) \\
&:= 7 + ((7 - 7/7) \times (7 \times 77 - (77/7))) \\
&:= (8/8 + 8 + 8 + 8) \times (8 \times (8 + 8) - 8/8) \\
&:= 99 + (((9 + 9) \times (9 \times (9 + 9) + 9)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3176 &:= 11 + (((1 + 1) \times ((11 \times (1 + 11)^{1+1}) - 1)) - 1) \\
&:= 2 + ((2 + 2 + 2) \times ((22 + 2/2)^2)) \\
&:= 3 \times 3 + ((33 \times (3 \times 33 - 3)) - 3/3) \\
&:= 4 + ((44 \times ((4 \times 4 \times 4 + 4) + 4)) + 4) \\
&:= 55 + ((5/5 - 5) + 5^5) \\
&:= ((6 + 6)/6 + 6) \times (6 \times 66 + 6/6) \\
&:= 777 + (7 \times 7 \times 7 \times 7 - ((7 + 7)/7)) \\
&:= 8 + (8 \times ((88 \times (8 \times 8 + 8))/(8 + 8))) \\
&:= 99 + (((9 + 9) \times (9 \times (9 + 9) + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3177 &:= 11 + ((1 + 1) \times ((11 \times (1 + 11)^{1+1}) - 1)) \\
&:= (2/2 + 2) \times (((2 \times 22 + 2)^2 + 2)/2) \\
&:= 3 \times ((33 \times (33 - 3/3)) + 3) \\
&:= 4 + (((4/4 + 4)^{4+4/4}) + 44) + 4) \\
&:= 55 + (((5 + 5)/5 - 5) + 5^5) \\
&:= 6 + ((66 \times (6 \times 6 + 6 + 6)) + (6 \times 6/(6 + 6))) \\
&:= 777 + (7 \times 7 \times 7 \times 7 - 7/7) \\
&:= 8 + ((8 \times ((88 \times (8 \times 8 + 8))/(8 + 8))) + 8/8) \\
&:= 99 + ((9 + 9) \times (9 \times (9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3178 &:= (11 \times (1 + ((1 + 1) \times (1 + 11)^{1+1}))) - 1 \\
&:= (2 \times (2 \times (22 - 2))^2) - 22 \\
&:= 3 \times 3 + ((33 \times (3 \times 33 - 3)) + 3/3) \\
&:= 4 + (((4^4 + 4)/4 + 4) \times ((4 + 4)/4 + 44)) \\
&:= 55 + (5^5 - ((5 + 5)/5)) \\
&:= ((66 - 6)/6) + (66 \times (6 \times 6 + 6 + 6)) \\
&:= 777 + 7 \times 7 \times 7 \times 7 \\
&:= (8 - 8/8) \times ((8 \times (8 \times 8 - 8) - ((8 + 8)/8)) + 8) \\
&:= 9/9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3179 &:= 11 \times (1 + ((1 + 1) \times (1 + 11)^{1+1})) \\
&:= 22/2 \times ((2^{2+2} + 2/2)^2) \\
&:= 33/3 + (33 \times (3 \times 33 - 3)) \\
&:= 44/4 + (44 \times ((4 \times 4 \times 4 + 4) + 4)) \\
&:= 55 + (5^5 - 5/5) \\
&:= 66/6 + (66 \times (6 \times 6 + 6 + 6)) \\
&:= 7/7 + (7 \times 7 \times 7 \times 7 + 777) \\
&:= 88/8 \times ((8/8 + 8 + 8)^{(8+8)/8}) \\
&:= 99/9 \times (((9 - 9/9) + 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3180 &:= 1 + (11 \times (1 + ((1 + 1) \times (1 + 11)^{1+1}))) \\
&:= 2 + ((2 \times (2 \times (22 - 2))^2) - 22) \\
&:= 3 + ((33 \times (3 \times 33 - 3)) + 3 \times 3) \\
&:= (44/4 + 4) \times (4^4 - 44) \\
&:= 55 + 5^5 \\
&:= 6 + ((66 \times (6 \times 6 + 6 + 6)) + 6) \\
&:= (7 + 7)/7 + (7 \times 7 \times 7 \times 7 + 777) \\
&:= 8 + (((88 \times (8 \times 8 + 8)) + 8)/(8 + 8)/8) \\
&:= 999/9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3181 &:= 1 + (1 + (11 \times (1 + ((1 + 1) \times (1 + 11)^{1+1})))) \\
&:= 2 + (22/2 \times ((2^{2+2} + 2/2)^2)) \\
&:= 3 + (((33 \times (3 \times 33 - 3)) + 3 \times 3) + 3/3) \\
&:= 4/4 + ((44/4 + 4) \times (4^4 - 44)) \\
&:= 55 + (5^5 + 5/5) \\
&:= 6 + (((66 \times (6 \times 6 + 6 + 6)) + 6/6) + 6) \\
&:= ((7 - 7/7) \times (7 \times 77 - 7)) - 77/7 \\
&:= ((8 + 8) \times (8 \times (8 + 8 + 8) + 8)) - (88/8 + 8) \\
&:= ((9 \times 9 \times 9 \times 9 - 9/9)/(9 + 9)/9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3182 &:= 111 + (((1 + 1 + 1) \times (1 + 11)^{1+1}) - 1) \\
&:= (2 \times ((2 \times (22 - 2))^2 + 2)) - 22 \\
&:= 3 + ((33 \times (3 \times 33 - 3)) + 33/3) \\
&:= (44 - 4/4) \times (((4^4 - 4) + 44)/4) \\
&:= 55 + ((5 + 5)/5 + 5^5) \\
&:= 6 + (((6 + 6)/6 + 6) \times (6 \times 66 + 6/6)) \\
&:= 7 + (((7 - 7/7) \times (7 \times 77 - (77/7))) + 7) \\
&:= ((8 + 8)/8) \times ((888 - 8/8) + 8 \times 88) \\
&:= ((9 \times 9 \times 9 \times 9 + 9/9)/(9 + 9)/9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3183 &:= 111 + ((1 + 1 + 1) \times (1 + 11)^{1+1}) \\
&:= (2 \times (2 \times (2 \times ((22 - 2)^2 - 2)))) - 2/2 \\
&:= (3 \times (3^{3+3} + 333)) - 3 \\
&:= 444/4 + (4^4 \times ((4 + 4) + 4)) \\
&:= 5 + ((5^5 - ((5 + 5)/5)) + 55) \\
&:= ((6 + 6)/6)^6 + (((6 - 6/6)^{6-6/6}) - 6) \\
&:= 77 \times (7 \times 7 - 7) - ((7 + 7)/7 + 7 \times 7) \\
&:= 888/8 + (8 \times (8 \times (8 \times 8 - 8))) \\
&:= ((99 \times 99 - 9)/(9 + 9 + 9)/9) - 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3184 &:= 1 + (111 + ((1 + 1 + 1) \times (1 + 11)^{1+1})) \\
&:= 2 \times (2 \times (2 \times ((22 - 2)^2 - 2))) \\
&:= 3/3 + ((3 \times (3^{3+3} + 333)) - 3) \\
&:= 4 \times ((4 + 4) \times 44 + 444) \\
&:= 5 + ((55 - 5/5) + 5^5) \\
&:= ((6 + 6)/6 + 6) \times (((6 + 6)/6) + 6 \times 66) \\
&:= 77 \times (7 \times 7 - 7) - (7/7 + 7 \times 7) \\
&:= (8 + 8) \times (888/8 + 88) \\
&:= 999 + (9 \times 9 \times (9 + 9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3185 &:= (1 + 1 + 11) \times (1 + ((1 + 1) \times (1 + 11)^{1+1})) \\
&:= 2/2 + (2 \times (2 \times (2 \times ((22 - 2)^2 - 2)))) \\
&:= (3 \times (3^{3+3} + 333)) - 3/3 \\
&:= (4^4 + 4)/4 \times ((44 + 4/4) + 4) \\
&:= 5 + (55 + 5^5) \\
&:= 66 + (((6 - 6/6)^{6-6/6}) - 6) \\
&:= 7 \times (7 \times 77 - (77 + 7)) \\
&:= 8/8 + ((8 + 8) \times (888/8 + 88)) \\
&:= (((9 + 9)/9)^9) + 99 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3186 &:= (1 + 1) \times ((11 \times (1 + (1 + 11)^{1+1})) - (1 + 1)) \\
&:= 2 + (2 \times (2 \times (2 \times ((22 - 2)^2 - 2)))) \\
&:= 3 \times (3^{3+3} + 333) \\
&:= ((4 + 4)/4 + 4 \times 4) \times (4 \times 44 + 4/4) \\
&:= 5 + ((55 + 5^5) + 5/5) \\
&:= 6 + (((66 \times (6 \times 6 + 6 + 6)) + 6) + 6) \\
&:= 7/7 + (7 \times (7 \times 77 - (77 + 7))) \\
&:= (8 + 8)/8 + ((8 + 8) \times (888/8 + 88)) \\
&:= 999 + 9 \times 9 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3187 &:= ((1 + 1) \times ((11 \times (1 + (1 + 11)^{1+1})) - 1)) - 1 \\
&:= (2 \times (2 \times (22 - 2))^2) - (22/2 + 2) \\
&:= 3/3 + (3 \times (3^{3+3} + 333)) \\
&:= 4 + ((4^4 \times ((4 + 4) + 4)) + 444/4) \\
&:= 5 + (((5 + 5)/5 + 55) + 5^5) \\
&:= 6 + (((66 \times (6 \times 6 + 6 + 6)) + 6/6) + 6) + 6) \\
&:= (7 + 7)/7 + (7 \times (7 \times 77 - (77 + 7))) \\
&:= 8 + (88/8 \times ((8/8 + 8 + 8)^{(8+8)/8})) \\
&:= 9/9 + (9 \times 9 \times (9 + 9 + 9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3188 &:= (1+1) \times ((11 \times (1+(1+11)^{1+1})) - 1) \\
&:= 2 \times ((2 \times (2 \times ((22-2)^2 - 2))) + 2) \\
&:= 3 + ((3 \times (3^{3+3} + 333)) - 3/3) \\
&:= 4 + (4 \times ((4+4) \times 44 + 444)) \\
&:= 5^5 + (5^5/5 + 5)/(5+5) \\
&:= 6 + (((6+6)/6 + 6) \times (6 \times 66 + 6/6)) + 6) \\
&:= 7 + (((7-7/7) \times (7 \times 77 - 7)) - (77/7)) \\
&:= 8 + (((88 \times (8 \times 8 + 8)) + 8)/(8+8)/8) + 8) \\
&:= 9 + ((99/9) \times (((9-9/9) + 9)^{(9+9)/9}))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3189 &:= ((1+1) \times (11 \times (1+(1+11)^{1+1}))) - 1 \\
&:= (2 \times (2 \times (22-2))^2) - 2/2 \\
&:= 3 + (3 \times (3^{3+3} + 333)) \\
&:= 4 \times 4 \times 4 + ((4/4 + 4)^{4+4+4}) \\
&:= 5 + (((55-5/5) + 5^5) + 5) \\
&:= ((6+6)/6)^6 + ((6-6/6)^{6-6/6}) \\
&:= 77/7 + (7 \times 7 \times 7 \times 7 + 777) \\
&:= ((8+8) \times (8 \times (8+8+8) + 8)) - 88/8 \\
&:= 999/9 + ((9+9) \times (9 \times (9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3190 &:= (1+1) \times (11 \times (1+(1+11)^{1+1})) \\
&:= 2 \times 22^2 + 2222 \\
&:= 3 + ((3 \times (3^{3+3} + 333)) + 3/3) \\
&:= (4^4 + 4)/4 + ((4/4 + 4)^{4+4+4}) \\
&:= 5 + (55 + 5^5 + 5) \\
&:= 66 + (((6-6/6)^{6-6/6}) - 6/6) \\
&:= ((7-7/7) \times (7 \times 77 - 7)) - (7+7)/7 \\
&:= (8-88)/8 + ((8+8) \times (8 \times (8+8+8) + 8)) \\
&:= (99/9 + 9 + 9) \times (99/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3191 &:= 1 + ((1+1) \times (11 \times (1+(1+11)^{1+1}))) \\
&:= 2 + ((2 \times (2 \times (22-2))^2) - 22/2) \\
&:= 3 + (((3 \times (3^{3+3} + 333)) - 3/3) + 3) \\
&:= (4+4) \times (4^4 + 4) + 4444/4 \\
&:= 55 + (55/5 + 5^5) \\
&:= 66 + ((6-6/6)^{6-6/6}) \\
&:= ((7-7/7) \times (7 \times 77 - 7)) - 7/7 \\
&:= ((8+8) \times (8 \times (8+8+8) + 8)) - (8/8 + 8) \\
&:= ((9-9/9) \times ((99/9 + 9)^{(9+9)/9})) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3192 &:= (1+1) \times (1+(11 \times (1+(1+11)^{1+1}))) \\
&:= 2 \times (2 \times (2 \times (22-2)^2 - 2)) \\
&:= 3 + ((3 \times (3^{3+3} + 333)) + 3) \\
&:= (4+4) \times (4 \times 4^4 - (4/4 + 4)^4) \\
&:= 55 + (((55+5)/5) + 5^5) \\
&:= (6/6 + 6) \times ((6 \times 66 - 6) + 66) \\
&:= (7-7/7) \times (7 \times 77 - 7) \\
&:= (8 \times 8 - 8) \times ((8/8 - 8) + 8 \times 8) \\
&:= ((99+9)/9 + 9) \times (9 \times (9+9) - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3193 &:= 1 + ((1+1) \times (1+(11 \times (1+(1+11)^{1+1})))) \\
&:= 2/2 + (2 \times (2 \times (2 \times (22-2)^2 - 2))) \\
&:= 3 + (((3 \times (3^{3+3} + 333)) + 3/3) + 3) \\
&:= 4 + (((4/4 + 4)^{4+4+4}) + 4 \times 4 \times 4) \\
&:= 5 + ((5^5/5 + 5)/(5+5) + 5^5) \\
&:= 6 \times 6 + ((66 \times (6 \times 6 + 6 + 6)) - (66/6)) \\
&:= 7/7 + ((7-7/7) \times (7 \times 77 - 7)) \\
&:= 8/8 + ((8 \times 8 - 8) \times ((8/8 - 8) + 8 \times 8)) \\
&:= 9 + ((9 \times 9 \times (9+9+9) - ((9+9)/9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3194 &:= (1+1) \times (1+(1+(11 \times (1+(1+11)^{1+1})))) \\
&:= (2 \times ((2 \times (22-2))^2 - 2)) - 2 \\
&:= 3^3 + ((33 \times (3 \times 33 - 3)) - 3/3) \\
&:= 4 + (((4/4 + 4)^{4+4+4}) + (4^4 + 4)/4) \\
&:= 5 + (((55-5/5) + 5^5) + 5) + 5) \\
&:= 6 + (((6+6)/6 + 6) \times (6 \times 66 + 6/6)) + 6) + 6) \\
&:= (7+7)/7 + ((7-7/7) \times (7 \times 77 - 7)) \\
&:= (8+8)/8 + ((8 \times 8 - 8) \times ((8/8 - 8) + 8 \times 8)) \\
&:= 9 + (99 \times (9+9+9) + ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3195 &:= 1 + ((1+1) \times (1+(1+(11 \times (1+(1+11)^{1+1})))))) \\
&:= (2 \times ((2 \times (22-2))^2 - 2)) - 2/2 \\
&:= 3 \times ((3^{3+3} + 333) + 3) \\
&:= (4/4 + 4) \times ((4 \times (4 \times (44-4))) - 4/4) \\
&:= 5 + ((55 + 5^5 + 5) + 5) \\
&:= 6 + (((6-6/6)^{6-6/6}) + ((6+6)/6)^6) \\
&:= 77 + (((7 - ((7+7)/7))^{7-(7+7)/7}) - 7) \\
&:= 88/8 + ((8+8) \times (888/8 + 88)) \\
&:= 9 + (9 \times 9 \times (9+9+9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3196 &:= (1+1) \times (1+(1+(1+(11 \times (1+(1+11)^{1+1})))))) \\
&:= 2 \times (2 \times (22-2))^2 - 2 \\
&:= 3^3 + ((33 \times (3 \times 33 - 3)) + 3/3) \\
&:= (4 \times ((4 \times 4 + 4) \times (44-4))) - 4 \\
&:= 5 + ((55/5 + 55) + 5^5) \\
&:= (66/6 + 6 \times 6) \times (((6+6)/6) + 66) \\
&:= 77/7 + (7 \times (7 \times 77 - (77+7))) \\
&:= ((8 \times (888 - 88)) - 8)/((8+8)/8) \\
&:= 9 + ((9 \times 9 \times (9+9+9) + 999) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3197 &:= (11-1)^{1+1+1} + ((1+1+11)^{1+1+1}) \\
&:= 2/2 + (2 \times ((2 \times (22-2))^2 - 2)) \\
&:= 33/3 + (3 \times (3^{3+3} + 333)) \\
&:= 4/4 + ((4 \times ((4 \times 4 + 4) \times (44-4))) - 4) \\
&:= 5 + (((55+5)/5) + 5^5) + 55) \\
&:= 6 + (((6-6/6)^{6-6/6}) + 66) \\
&:= 7 + (((7-7/7) \times (7 \times 77 - 7)) - ((7+7)/7)) \\
&:= 8 \times 8 \times 8 - (888 + 88/8) \\
&:= 99/9 + (9 \times 9 \times (9+9+9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3198 &:= (1+1) \times ((1+1+11) \times (1+(1+11)^{1+1})) \\
&:= (2 \times (2 \times (22-2))^2) - 2 \\
&:= 3 + ((33 \times (3 \times 33 - 3)) + 3^3) \\
&:= (4 \times ((4 \times 4 + 4) \times (44-4))) - (4+4)/4 \\
&:= 5^5 + ((5 \times (5+5+5)) - ((5+5)/5)) \\
&:= 6 \times 6 + ((66 \times (6 \times 6 + 6 + 6)) - 6) \\
&:= (7-7/7) \times ((7 \times 77 - 7) + 7/7) \\
&:= ((8+8) \times (8 \times (8+8+8) + 8)) - (8+8)/8 \\
&:= 9 + (((9+9) \times (9 \times (9+9) + 9)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3199 &:= ((1+1) \times ((1+1) \times ((1+1) \times (11-1)))^{1+1}) - 1 \\
&:= (2 \times (2 \times (22-2))^2) - 2/2 \\
&:= (((((3 \times (3+3)) + 3)^3) + 333) + 3)/3 \\
&:= (4 \times ((4 \times 4 + 4) \times (44-4))) - 4/4 \\
&:= 5^5 + ((5 \times (5+5+5)) - 5/5) \\
&:= 6 \times 6 + (((66 \times (6 \times 6 + 6 + 6)) - 6) + 6/6) \\
&:= 7 + ((7-7/7) \times (7 \times 77 - 7)) \\
&:= ((8+8) \times (8 \times (8+8+8) + 8)) - 8/8 \\
&:= 9 + ((99/9 + 9 + 9) \times (99/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3200 &:= (1+1) \times (((1+1) \times ((1+1) \times (11-1)))^{1+1}) \\
&:= 2 \times (2 \times (22-2))^2 \\
&:= (33-3/3) \times (3 \times 33 + 3/3) \\
&:= 4 \times ((4 \times 4 + 4) \times (44-4)) \\
&:= 5^5 + (5 \times (5+5+5)) \\
&:= (6-6/6) \times (((66-6)/6) \times ((6+6)/6)^6) \\
&:= ((7+7)/7)^7 \times (77/7 + 7+7) \\
&:= (8+8) \times (8 \times (8+8+8) + 8) \\
&:= (9-9/9) \times ((99/9 + 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3201 &:= 11 \times (1+((1+1) \times (1+(1+11)^{1+1}))) \\
&:= 2/2 + (2 \times (2 \times (22-2))^2) \\
&:= 33 + (33 \times (3 \times 33 - 3)) \\
&:= 4/4 + (4 \times ((4 \times 4 + 4) \times (44-4))) \\
&:= 5^5 + ((5 \times (5+5+5)) + 5/5) \\
&:= 66/6 \times ((6 \times 66 - 666/6) + 6) \\
&:= (77 \times (7 \times 7 + 7)) - 7777/7 \\
&:= 8/8 + ((8+8) \times (8 \times (8+8+8) + 8)) \\
&:= 99/9 \times ((999/9 + 99) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3202 &:= 1 + (11 \times (1+((1+1) \times (1+(1+11)^{1+1})))) \\
&:= 2 + (2 \times (2 \times (22-2))^2) \\
&:= 3/3 + ((33 \times (3 \times 33 - 3)) + 33) \\
&:= (4+4)/4 + (4 \times ((4 \times 4 + 4) \times (44-4))) \\
&:= 55 + ((55+55)/5 + 5^5) \\
&:= 6 + ((66/6 + 6 \times 6) \times (((6+6)/6) + 66)) \\
&:= 77 + (((7 - ((7+7)/7))^{7-(7+7)/7}) - 7) \\
&:= (8+8)/8 + ((8+8) \times (8 \times (8+8+8) + 8)) \\
&:= ((99/9 + 9) \times (9 \times (9+9) - 9/9)) - (9+9)
\end{aligned}$$

- ▶ 3203 := $1 + (1 + (11 \times (1 + ((1 + 1) \times (1 + (1 + 11)^{1+1})))))$
:= $2 + ((2 \times (2 \times (22 - 2))^2) + 2/2)$
:= $(3 \times 33 \times 33) - ((3/3 + 3)^3)$
:= $4 + ((4 \times ((4 \times 4 + 4) \times (44 - 4))) - 4/4)$
:= $5 \times 5 + ((5^5 - ((5 + 5)/5)) + 55)$
:= $6 + (((6 - 6/6)^{6-6/6} + 66) + 6)$
:= $77/7 + ((7 - 7/7) \times (7 \times 77 - 7))$
:= $88/8 + ((8 \times 8 - 8) \times ((8/8 - 8) + 8 \times 8))$
:= $9 + ((99 \times (9 + 9 + 9) + ((9 + 9)/9)^9) + 9)$
- ▶ 3204 := $(1 + 11) \times (1 + ((1 + 1) \times (1 + (11 \times (1 + 11)))))$
:= $2 \times ((2 \times (22 - 2))^2 + 2)$
:= $3 + ((33 \times (3 \times 33 - 3)) + 33)$
:= $4 + (4 \times ((4 \times 4 + 4) \times (44 - 4)))$
:= $5 \times 5 + ((55 - 5/5) + 5^5)$
:= $6 \times ((66 \times ((6 + 6)/6 + 6)) + 6)$
:= $(7 - 7/7) \times (((7 + 7)/7 - 7) + 7 \times 77)$
:= $(8/8 + 8) \times ((8 \times 88 + 8)/((8 + 8)/8))$
:= $9 \times (((9 \times 9 \times 9 + 9)/9 + 9) - 9)$
- ▶ 3205 := $1 + ((1 + 11) \times (1 + ((1 + 1) \times (1 + (11 \times (1 + 11))))))$
:= $2/2 + (2 \times ((2 \times (22 - 2))^2 + 2))$
:= $((3/3 + 3)^{3+3}) - (33 \times 3^3)$
:= $(4/4 + 4) \times ((4/4 + 4)^4 + 4 \times 4)$
:= $5 \times 5 + (55 + 5^5)$
:= $6 \times 6 + ((66 \times (6 \times 6 + 6 + 6)) + 6/6)$
:= $7 + ((7 - 7/7) \times ((7 \times 77 - 7) + 7/7))$
:= $8 + (8 \times 8 \times 8 \times 8 - (888 + 88/8))$
:= $((9 - 9/9) \times ((9 + 9)/9)^9) - 9 \times 99$
- ▶ 3206 := $((1 + 1 + 1) \times (1111 - (1 + 1))) - 11^{1+1}$
:= $2 + (2 \times ((2 \times (22 - 2))^2 + 2))$
:= $3 + ((3 \times 33 \times 33) - ((3/3 + 3)^3))$
:= $(4 - 4/4)^4 + ((4/4 + 4)^{4+4/4})$
:= $5 \times 5 + ((55 + 5^5) + 5/5)$
:= $6 \times 6 + ((66 \times (6 \times 6 + 6 + 6)) + ((6 + 6)/6))$
:= $7 + (((7 - 7/7) \times (7 \times 77 - 7)) + 7)$
:= $8 \times 8 \times 8 \times 8 - (888 + ((8 + 8)/8))$
:= $9 + ((9 \times 9 \times (9 + 9 + 9) + (99/9)) + 999)$
- ▶ 3207 := $((1 + 1) \times (111 + (1 + 1)^{11})) - 1111$
:= $2 + ((2 \times ((2 \times (22 - 2))^2 + 2)) + 2/2)$
:= $3333 - (3 \times 33 + 3^3)$
:= $(4 - 4/4) \times ((4 \times 4^4 + 4/4) + 44)$
:= $5 \times 5 + (((5 + 5)/5 + 55) + 5^5)$
:= $666/6 + ((6 + 6) \times (6 \times (6 \times 6 + 6) + 6))$
:= $7 + (((7 + 7)/7)^7 \times (77/7 + 7 + 7))$
:= $8 \times 8 \times 8 \times 8 - (888 + 8/8)$
:= $99 + (999/9 \times ((9/9 + 9 + 9) + 9))$
- ▶ 3208 := $(111 \times (((11 - 1) \times (1 + 1 + 1)) - 1)) - 11$
:= $2 \times (((2 \times (22 - 2))^2 + 2) + 2)$
:= $3333 - ((3 - 3/3 + 3)^3)$
:= $4 + ((4 \times ((4 \times 4 + 4) \times (44 - 4))) + 4)$
:= $5 + (((5^5 - ((5 + 5)/5)) + 55) + 5 \times 5)$
:= $((6 + 6)/6 + 6) \times ((6 \times 66 - 6/6) + 6)$
:= $7 + ((77 \times (7 \times 7 + 7)) - 7777/7)$
:= $8 \times 8 \times 8 \times 8 - 888$
:= $(9 - 9/9) \times (((9 + 9)/9)^9) - 999/9$
- ▶ 3209 := $((1 + 1 + 1) \times (1111 - 1)) - 11^{1+1}$
:= $2/2 + (2 \times ((2 \times (22 - 2))^2 + 2) + 2)$
:= $3 + (((3 \times 33 \times 33) - ((3/3 + 3)^3)) + 3)$
:= $4 + ((4/4 + 4) \times ((4/4 + 4)^4 + 4 \times 4))$
:= $5 + (((55 - 5/5) + 5^5) + 5 \times 5)$
:= $6 + (((6 - 6/6)^{6-6/6} + 66) + 6) + 6)$
:= $77 \times (7 \times 7 - 7) - (77/7 + 7 + 7)$
:= $8/8 + (8 \times 8 \times 8 \times 8 - 888)$
:= $9 + ((9 - 9/9) \times ((99/9 + 9)^{(9+9)/9}))$
- ▶ 3210 := $(1 + 1) \times ((11 \times (1 + (1 + (1 + 11)^{1+1}))) - 1)$
:= $2 + (2 \times ((2 \times (22 - 2))^2 + 2) + 2)$
:= $(3 + 3)^3 + (3 \times 3 \times 333 - 3)$
:= $(44 - 4)/4 \times ((4^4 + 4)/4 + 4^4)$
:= $5 + ((55 + 5^5) + 5 \times 5)$
:= $6 + ((66 \times (6 \times 6 + 6 + 6)) + 6 \times 6)$
:= $(7 - 7/7) \times ((7 \times 77 - (77/7)) + 7)$
:= $(8 + 8)/8 + (8 \times 8 \times 8 \times 8 - 888)$
:= $(999/9 \times (99/9 + 9 + 9)) - 9$
- ▶ 3211 := $((1 + 1) \times (11 - 1)) - 1 \times (1 + 1 + 11)^{1+1}$
:= $22/2 + (2 \times (2 \times (22 - 2))^2)$
:= $3 + (3333 - ((3 - 3/3 + 3)^3))$
:= $44/4 + (4 \times ((4 \times 4 + 4) \times (44 - 4)))$
:= $5^5 + (555/5 - 5 \times 5)$
:= $6 + (((66 \times (6 \times 6 + 6 + 6)) + 6 \times 6) + 6/6)$
:= $7 + ((7 - 7/7) \times (((7 + 7)/7 - 7) + 7 \times 77))$
:= $88/8 + ((8 + 8) \times (8 \times (8 + 8 + 8) + 8))$
:= $((99/9 + 9) \times (9 \times (9 + 9) - 9/9)) - 9$
- ▶ 3212 := $(1 + 1) \times (11 \times (1 + (1 + (1 + 11)^{1+1})))$
:= $22 \times (((2 \times (2 + 2 + 2))^2) + 2)$
:= $(3 + 3)^3 + (3 \times 3 \times 333 - 3/3)$
:= $44 \times (((4^4 + 4)/4 + 4) + 4)$
:= $55 + (((5 + 5)/5)^5 + 5^5)$
:= $6 \times 6 + (((6 + 6)/6 + 6) \times (6 \times 66 + 6/6))$
:= $77 + (((7 \times 7 + 7)^{(7+7)/7}) - 7/7)$
:= $(88/((8 + 8)/8)) \times ((8/8 + 8 \times 8) + 8)$
:= $((9 + 9)/9)^9 + ((9 + 9 + 9) \times (9/9 + 99))$
- ▶ 3213 := $1 + ((1 + 1) \times (11 \times (1 + (1 + (1 + 11)^{1+1}))))$
:= $2 + ((2 \times (2 \times (22 - 2))^2) + 22/2)$
:= $3 \times (3 \times ((333 - 3) + 3^3))$
:= $44 + (((4/4 + 4)^{4+4/4}) + 44)$
:= $5 \times 5 + ((5^5/5 + 5)/(5 + 5) + 5^5)$
:= $(666/6 \times (6 \times 6 - (6/6 + 6))) - 6$
:= $77 + ((7 \times 7 + 7)^{(7+7)/7})$
:= $(8 - 8/8) \times (8 \times (8 \times 8 - 8) + (88/8))$
:= $(9 + 9 + 9) \times ((99/9 + 99) + 9)$
- ▶ 3214 := $(1 + 1) \times (1 + (11 \times (1 + (1 + (1 + 11)^{1+1}))))$
:= $2 + (22 \times (((2 \times (2 + 2 + 2))^2) + 2))$
:= $3/3 + (3 \times 3 \times 333 + (3 + 3)^3)$
:= $4 + ((44 - 4)/4 \times ((4^4 + 4)/4 + 4^4))$
:= $5^5 + (5 \times (5 \times 5 - 5) - (55/5))$
:= $6 + (((6 + 6)/6 + 6) \times ((6 \times 66 - 6/6) + 6))$
:= $7/7 + (((7 \times 7 + 7)^{(7+7)/7}) + 77)$
:= $8 + (8 \times 8 \times 8 \times 8 - (888 + ((8 + 8)/8)))$
:= $9 + (((9 - 9/9) \times ((9 + 9)/9)^9) - 9 \times 99)$
- ▶ 3215 := $((1 + 1 + 1) \times (1 + 1111)) - 11^{1+1}$
:= $22/2 + (2 \times ((2 \times (22 - 2))^2 + 2))$
:= $3 + ((3 \times 3 \times 333 - 3/3) + (3 + 3)^3)$
:= $((4 + 4)^4) - ((4/4 + 4)^4 + 4^4)$
:= $5 + (((55 + 5^5) + 5 \times 5) + 5)$
:= $((6 + 6)/6 + 6) \times (6 \times 66 + 6) - 6/6$
:= $((7 + 7)/7)^7 + 7 \times 7 \times (7 \times 7 + 7 + 7)$
:= $8 + (8 \times 8 \times 8 \times 8 - (888 + 8/8))$
:= $99 + ((9/9 + 9 + 9) \times (((9 + 9)/9) + 9 \times (9 + 9)))$
- ▶ 3216 := $(1 + 1) \times ((1 + 11) \times (1 + (1 + (11 \times (1 + 11)))))$
:= $2 \times (2 \times (2 \times ((22 - 2)^2 + 2)))$
:= $3 + (3 \times 3 \times 333 + (3 + 3)^3)$
:= $4 \times (((4 \times 4 + 4) \times (44 - 4)) + 4)$
:= $5 + ((555/5 - 5 \times 5) + 5^5)$
:= $((6 + 6)/6 + 6) \times (6 \times 66 + 6)$
:= $77 \times (7 \times 7 - 7) - (77/7 + 7)$
:= $8 + (8 \times 8 \times 8 \times 8 - 888)$
:= $9 + ((999/9 \times ((9/9 + 9 + 9) + 9)) + 99)$
- ▶ 3217 := $(111 \times (((11 - 1) \times (1 + 1 + 1)) - 1)) - 1 - 1$
:= $2/2 + (2 \times (2 \times (2 \times ((22 - 2)^2 + 2))))$
:= $3 + ((3 \times 3 \times 333 + (3 + 3)^3) + 3/3)$
:= $4/4 + (4 \times (((4 \times 4 + 4) \times (44 - 4)) + 4))$
:= $5 + (((5 + 5)/5)^5 + 5^5) + 55$
:= $6/6 + (((6 + 6)/6 + 6) \times (6 \times 66 + 6))$
:= $((7 - 77)/7) + (77 \times (7 \times 7 - 7) - 7)$
:= $8 + ((8 \times 8 \times 8 \times 8 - 888) + 8/8)$
:= $9 \times 9 + (((999 + 9)/9 + 9))^{(9+9)/9}$

- 3218 := $(111 \times (((11-1) \times (1+1+1)) - 1)) - 1$
:= $2 + (2 \times (2 \times (2 \times ((22-2)^2 + 2))))$
:= $3333 - (((333+3)/3) + 3)$
:= $444 + (((44 \times (4^4 - 4) + 4) + 4)/4)$
:= $5^5 + (5 \times 5 \times 5 - ((5+5)/5)^5)$
:= $(6+6)/6 + (((6+6)/6+6) \times (6 \times 66+6))$
:= $77 \times (7 \times 7 - 7) - (((7+7)/7+7) + 7)$
:= $8 + ((8 \times 8 \times 8 - 888) + ((8+8)/8))$
:= $(9+9)/9 \times ((9 \times (99+9 \times 9)) - (99/9))$
- 3219 := $111 \times (((11-1) \times (1+1+1)) - 1)$
:= $2 + ((2 \times (2 \times (2 \times ((22-2)^2 + 2)))) + 2/2)$
:= $33 + (3 \times (3^{3+3} + 333))$
:= $4 + (((4+4)^4) - ((4/4+4)^4 + 4^4))$
:= $5^5 + (5 \times (5 \times 5 - 5) - (5/5+5))$
:= $666/6 \times (6 \times 6 - (6/6+6))$
:= $77 \times (7 \times 7 - 7) - (7/7+7+7)$
:= $88/8 + (8 \times 8 \times 8 - 888)$
:= $999/9 \times (99/9 + 9+9)$
- 3220 := $1 + (111 \times (((11-1) \times (1+1+1)) - 1))$
:= $2 \times ((2 \times (2 \times ((22-2)^2 + 2))) + 2)$
:= $3333 + (((3-333)/3) - 3)$
:= $4 + (4 \times (((4 \times 4 + 4) \times (44-4)) + 4))$
:= $5^5 + (5 \times (5 \times 5 - 5) - 5)$
:= $(6/6+6) \times (((6+6)/6)^6 + 6 \times 66)$
:= $77 \times (7 \times 7 - 7) - (7+7)$
:= $8 + ((88/((8+8)/8)) \times ((8/8+8 \times 8) + 8))$
:= $(99/9+9) \times (9 \times (9+9) - 9/9)$
- 3221 := $((1+1+1) \times 1111) - (1+111)$
:= $22 + ((2 \times (2 \times (22-2))^2) - 2/2)$
:= $3333 - ((333+3)/3)$
:= $((44-4/4) \times ((44+4^4)/4)) - 4$
:= $5^5 + ((5 \times (5 \times 5 - 5) - 5) + 5/5)$
:= $6 + (((6+6)/6+6) \times (6 \times 66+6)) - 6/6$
:= $7/7 + (77 \times (7 \times 7 - 7) - (7+7))$
:= $8 + ((8-8/8) \times (8 \times (8 \times 8 - 8) + (88/8)))$
:= $((9+9) \times (99+9 \times 9)) - (9/9+9+9)$
- 3222 := $((1+1+1) \times 1111) - 111$
:= $22 + (2 \times (2 \times (22-2))^2)$
:= $3333 - 333/3$
:= $44 \times (44+4) + (4444-4)/4$
:= $5 + (((((5+5)/5)^5 + 5^5) + 55) + 5)$
:= $6 + (((6+6)/6+6) \times (6 \times 66+6))$
:= $(7-7/7) \times (7 \times 77 - ((7+7)/7))$
:= $88 + (((8 \times 8 - 8)^{(8+8)/8}) - ((8+8)/8))$
:= $(9+9) \times ((9 \times 9 - 9/9) + 99)$
- 3223 := $1 + (((1+1+1) \times 1111) - 111)$
:= $22 + ((2 \times (2 \times (22-2))^2) + 2/2)$
:= $3333 + ((3-333)/3)$
:= $44 \times (44+4) + 4444/4$
:= $5^5 + (5 \times (5 \times 5 - 5) - ((5+5)/5))$
:= $6 + (((6+6)/6+6) \times (6 \times 66+6)) + 6/6$
:= $77 \times (7 \times 7 - 7) - 77/7$
:= $88 + (((8 \times 8 - 8)^{(8+8)/8}) - 8/8)$
:= $9/9 + ((9+9) \times ((9 \times 9 - 9/9) + 99))$
- 3224 := $1 + (1 + (((1+1+1) \times 1111) - 111))$
:= $2 + ((2 \times (2 \times (22-2))^2) + 22)$
:= $3 + (3333 - ((333+3)/3))$
:= $((4-4^4) + 4) \times (4 - (4 \times 4 + 4/4))$
:= $5^5 + (5 \times (5 \times 5 - 5) - 5/5)$
:= $((6+6)/6+6) \times ((6 \times 66+6/6) + 6)$
:= $((7-77)/7) + 77 \times (7 \times 7 - 7)$
:= $88 + ((8 \times 8 - 8)^{(8+8)/8})$
:= $(9+9)/9 + ((9+9) \times ((9 \times 9 - 9/9) + 99))$
- 3225 := $((1+1+1) \times (1+1111)) - 111$
:= $2 + (((2 \times (2 \times (22-2))^2) + 2/2) + 22)$
:= $3333 - (3 \times (33+3))$
:= $(44-4/4) \times ((44+4^4)/4)$
:= $5^5 + 5 \times (5 \times 5 - 5)$
:= $6 + (666/6 \times (6 \times 6 - (6/6+6)))$
:= $77 \times (7 \times 7 - 7) - ((7+7)/7+7)$
:= $8/8 + (((8 \times 8 - 8)^{(8+8)/8}) + 88)$
:= $(9999/((9+9+9)/9)) - (99+9)$
- 3226 := $1 + (((1+1+1) \times (1+1111)) - 111)$
:= $22 + (2 \times ((2 \times (22-2))^2 + 2))$
:= $3 + (((3-333)/3) + 3333)$
:= $4/4 + ((44-4/4) \times ((44+4^4)/4))$
:= $5^5 + (5 \times (5 \times 5 - 5) + 5/5)$
:= $6 + ((6/6+6) \times (((6+6)/6)^6 + 6 \times 66))$
:= $77 \times (7 \times 7 - 7) - (7/7+7)$
:= $88 + (((8 \times 8 - 8)^{(8+8)/8}) + ((8+8)/8))$
:= $9 + (((999+9)/(9+9))^{(9+9)/9}) + 9 \times 9$
- 3227 := $1 + (1 + (((1+1+1) \times (1+1111)) - 111))$
:= $(2222/2) + (2 \times 22+2)^2$
:= $3 + ((3333 - ((333+3)/3)) + 3)$
:= $((4-4/4)^4 \times (44-4/4)) - 4^4$
:= $5^5 + (5 \times (5 \times 5 - 5) + ((5+5)/5))$
:= $6 \times 6 + (((6-6/6)^{6-6/6}) + 66)$
:= $77 \times (7 \times 7 - 7) - 7$
:= $8 + ((8 \times 8 \times 8 - 888) + (88/8))$
:= $((9+9) \times (99+9 \times 9)) - (99+9+9)/9$
- 3228 := $((1+1+1) \times (1 + (1+1111))) - 111$
:= $2 + ((2 \times ((2 \times (22-2))^2 + 2)) + 22)$
:= $3 + (3333 - (3 \times (33+3)))$
:= $((4+4) \times ((444-44) + 4)) - 4$
:= $5 + 5 \times (5 \times 5 - 5) - (5+5)/5 + 5^5$
:= $66 + ((66 \times (6 \times 6 + 6 + 6)) - 6)$
:= $7/7 + (77 \times (7 \times 7 - 7) - 7)$
:= $8 \times 8 + (((88 \times (8 \times 8 + 8)) - 8)/((8+8)/8))$
:= $9 + (999/9 \times (99/9 + 9+9))$
- 3229 := $1 + (((1+1+1) \times (1 + (1+1111))) - 111)$
:= $2 + ((2222/2) + (2 \times 22+2)^2)$
:= $(3 \times 33 \times 33) - (33/3 + 3^3)$
:= $4 + ((44-4/4) \times ((44+4^4)/4))$
:= $5^5 + (5^5 - 5)/(5 \times 5 + 5)$
:= $(6 \times ((6+6+6) \times (6 \times 6 - 6))) - 66/6$
:= $(7+7)/7 + (77 \times (7 \times 7 - 7) - 7)$
:= $8 + (((8-8/8) \times (8 \times (8 \times 8 - 8) + (88/8))) + 8)$
:= $((9+9) \times (99+9 \times 9)) - 99/9$
- 3230 := $11 + (111 \times (((11-1) \times (1+1+1)) - 1))$
:= $22 + (2 \times (((2 \times (22-2))^2 + 2) + 2))$
:= $3333 - ((3 \times 33 + 3/3) + 3)$
:= $4 \times (4^4 - 4) + 4 \times 4444/(4+4)$
:= $5 + (5 \times (5 \times 5 - 5) + 5^5)$
:= $6 + (((6+6)/6+6) \times ((6 \times 66+6/6) + 6))$
:= $7 + (77 \times (7 \times 7 - 7) - (77/7))$
:= $(8/8+8+8) \times (8 \times (8+8+8) - ((8+8)/8))$
:= $(9/9+9) \times ((9+9) \times (9+9) - 9/9)$
- 3231 := $1 + (11 + (111 \times (((11-1) \times (1+1+1)) - 1)))$
:= $(2 \times 22)^2 + ((2+2+2)^{2+2} - 2/2)$
:= $3 \times (33 \times 33 - (3 \times 3 + 3))$
:= $444/4 + (((4+4) + 4) \times (4^4 + 4))$
:= $5^5 + (555/5 - 5)$
:= $(6 \times (666 - 6)) - ((6 \times 6/(6+6))^6)$
:= $77 \times (7 \times 7 - 7) - (7+7+7)/7$
:= $8 + (((8 \times 8 - 8)^{(8+8)/8}) - 8/8) + 88$
:= $((9+9) \times (99+9 \times 9)) - 9$
- 3232 := $(1+1) \times (((1+11)^{1+1+1}) - (1+111))$
:= $2 \times ((2 \times (22-2))^2 + 2^{2+2})$
:= $3/3 + (3 \times (33 \times 33 - (3 \times 3 + 3)))$
:= $(4+4) \times ((444-44) + 4)$
:= $5^5 + ((555+5)/5 - 5)$
:= $((6+6)/6)^6 + (66 \times (6 \times 6 + 6 + 6))$
:= $77 \times (7 \times 7 - 7) - (7+7)/7$
:= $8 + (((8 \times 8 - 8)^{(8+8)/8}) + 88)$
:= $9/9 + (((9+9) \times (99+9 \times 9)) - 9)$

$$\begin{aligned}
\blacktriangleright 3233 &:= 11 + (((1+1+1) \times 1111) - 111) \\
&:= 22 + (2 \times (2 \times (22-2))^2) + 22/2 \\
&:= 3333 - (3 \times 33 + 3/3) \\
&:= 4/4 + ((4+4) \times ((444-44) + 4)) \\
&:= 55 + (5^5 - ((5+5)/5)) + 55 \\
&:= 66 + ((66 \times (6 \times 6 + 6 + 6)) - 6/6) \\
&:= 77 \times (7 \times 7 - 7) - 7/7 \\
&:= (((8/8-8) + 8 \times 8)^{(8+8)/8}) - 8 - 8 \\
&:= (9+9)/9 + ((9+9) \times (99+9 \times 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3234 &:= (1+1) \times (((1+11)^{1+1+1}) - 111) \\
&:= 22 \times (((22/2+2)^2) - 22) \\
&:= 33 \times (3 \times 33 - 3/3) \\
&:= (44 - (4+4)/4) \times ((4-4/4)^4 - 4) \\
&:= 55 + ((55-5/5) + 5^5) \\
&:= 66 + (66 \times (6 \times 6 + 6 + 6)) \\
&:= 77 \times (7 \times 7 - 7) \\
&:= (8-8/8) \times ((8-8/8) \times (((8+8)/8) + 8 \times 8)) \\
&:= (99-9/9) \times (99/((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3235 &:= 1 + ((1+1) \times (((1+11)^{1+1+1}) - 111)) \\
&:= 2/2 + (22 \times (((22/2+2)^2) - 22)) \\
&:= 3/3 + (33 \times (3 \times 33 - 3/3)) \\
&:= ((44-4) \times (4-4/4)^4) - (4/4+4) \\
&:= 55 + (55+5^5) \\
&:= 66 + ((66 \times (6 \times 6 + 6 + 6)) + 6/6) \\
&:= 7/7 + 77 \times (7 \times 7 - 7) \\
&:= 88 + (((8 \times 8 - 8)^{(8+8)/8}) + (88/8)) \\
&:= 99 + (((999+9)/(9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3236 &:= (1+1) \times (1 + (((1+11)^{1+1+1}) - 111)) \\
&:= 2 + (22 \times (((22/2+2)^2) - 22)) \\
&:= 3 + (3333 - (3 \times 33 + 3/3)) \\
&:= ((44-4) \times (4-4/4)^4) - 4 \\
&:= 5^5 + 555/5 \\
&:= 666/6 + ((6-6/6)^{6-6/6}) \\
&:= (7+7)/7 + 77 \times (7 \times 7 - 7) \\
&:= 8 \times 8 + (((88 \times (8 \times 8 + 8)) + 8)/((8+8)/8)) \\
&:= (9+9)/9 \times ((9 \times (99+9 \times 9)) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3237 &:= ((1 + (1 + 111))/(1 + 1))^{1+1} - 1 - 11 \\
&:= (2/2+2) \times (222/2+2 \times 22^2) \\
&:= 3 + (33 \times (3 \times 33 - 3/3)) \\
&:= 4/4 + (((44-4) \times (4-4/4)^4) - 4) \\
&:= 5^5 + (555+5)/5 \\
&:= ((6 \times (6 \times 6 \times (6 \times 6 - 6))) - 6)/((6+6)/6) \\
&:= (7+7+7)/7 + 77 \times (7 \times 7 - 7) \\
&:= 888 + ((88-8/8) \times (88/8+8+8)) \\
&:= ((9+9) \times (99+9 \times 9)) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3238 &:= ((1 + (1 + 111))/(1 + 1))^{1+1} - 11 \\
&:= 22 + (2 \times (2 \times (2 \times ((22-2)^2 + 2)))) \\
&:= 3 + ((33 \times (3 \times 33 - 3/3)) + 3/3) \\
&:= ((44-4) \times (4-4/4)^4) - (4+4)/4 \\
&:= 5^5 + (555+5+5)/5 \\
&:= (6 \times ((6+6+6) \times (6 \times 6 - 6))) - (6+6)/6 \\
&:= 77/7 + (77 \times (7 \times 7 - 7) - 7) \\
&:= (((8/8-8) + 8 \times 8)^{(8+8)/8}) - 88/8 \\
&:= ((9+9) \times (99+9 \times 9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3239 &:= 1 + (((1 + (1 + 111))/(1 + 1))^{1+1} - 11) \\
&:= (((22-2) \times ((2^{2+2} + 2)^2)) - 2)/2 \\
&:= (3 \times 33 \times 33) - (3^3 + 3/3) \\
&:= ((44-4) \times (4-4/4)^4) - 4/4 \\
&:= 5^5 + (5 \times 5 \times 5 - (55/5)) \\
&:= (6 \times ((6+6+6) \times (6 \times 6 - 6))) - 6/6 \\
&:= 7 + (77 \times (7 \times 7 - 7) - ((7+7)/7)) \\
&:= 888/8 + (((8 \times 8 - 8)^{(8+8)/8}) - 8) \\
&:= ((9+9) \times (99+9 \times 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3240 &:= (11-1) \times ((1+1) \times (11-1-1))^{1+1} \\
&:= 2 \times (((2 \times (22-2))^2 - 2) + 22) \\
&:= 3 \times (3 \times (333 + 3^3)) \\
&:= (44-4) \times (4-4/4)^4 \\
&:= 5 + ((55+55) + 5^5) \\
&:= 6 \times ((6+6+6) \times (6 \times 6 - 6)) \\
&:= 7 + (77 \times (7 \times 7 - 7) - 7/7) \\
&:= (8+8+8) \times ((8 \times (8+8) - 8/8) + 8) \\
&:= (9+9) \times (99+9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3241 &:= (11-1) \times ((1+1) \times (11-1-1))^{1+1} + 1 \\
&:= (((22-2) \times ((2^{2+2} + 2)^2)) + 2)/2 \\
&:= 3/3 + (3 \times (3 \times (333 + 3^3))) \\
&:= 4/4 + ((44-4) \times (4-4/4)^4) \\
&:= 5 + (555/5 + 5^5) \\
&:= 6/6 + (6 \times ((6+6+6) \times (6 \times 6 - 6))) \\
&:= 7 + 77 \times (7 \times 7 - 7) \\
&:= (((8/8-8) + 8 \times 8)^{(8+8)/8}) - 8 \\
&:= 9/9 + ((9+9) \times (99+9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3242 &:= (11-1) \times ((1+1) \times (11-1-1))^{1+1} + 1 + 1 \\
&:= (2 \times ((2 \times (22-2))^2 + 22)) - 2 \\
&:= 3 + ((3 \times 33 \times 33) - (3^3 + 3/3)) \\
&:= (4+4)/4 + ((44-4) \times (4-4/4)^4) \\
&:= 5 + ((555+5)/5 + 5^5) \\
&:= (6+6)/6 + (6 \times ((6+6+6) \times (6 \times 6 - 6))) \\
&:= 7 + (77 \times (7 \times 7 - 7) + 7/7) \\
&:= 8/8 + (((8/8-8) + 8 \times 8)^{(8+8)/8}) - 8 \\
&:= (9+9)/9 + ((9+9) \times (99+9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3243 &:= (1+1+1) \times (1 + ((11-1) \times (111-1-1-1))) \\
&:= (2 \times ((2 \times (22-2))^2 + 22)) - 2/2 \\
&:= 3 + (3 \times (3 \times (333 + 3^3))) \\
&:= 4 + (((44-4) \times (4-4/4)^4) - 4/4) \\
&:= 5 + ((555+5+5)/5 + 5^5) \\
&:= ((6 \times (6 \times 6 \times (6 \times 6 - 6))) + 6)/((6+6)/6) \\
&:= 7 + (77 \times (7 \times 7 - 7) + ((7+7)/7)) \\
&:= 8 + (((8 \times 8 - 8)^{(8+8)/8}) + (88/8)) + 88 \\
&:= ((9+9+9)/9) + ((9+9) \times (99+9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3244 &:= (1+1)^{11-1} + ((1+1) \times (1111-1)) \\
&:= 2 \times ((2 \times (22-2))^2 + 22) \\
&:= 3 + ((3 \times (3 \times (333 + 3^3))) + 3/3) \\
&:= 4 + ((44-4) \times (4-4/4)^4) \\
&:= 5^5 + (5 \times 5 \times 5 - (55/5 + 5)) \\
&:= 66 \times 66 - (6666 + 6)/6 \\
&:= ((77-7)/7) + 77 \times (7 \times 7 - 7) \\
&:= ((8 \times (888-88)) + 88)/((8+8)/8) \\
&:= ((9+9)/9) \times ((9 \times (99+9 \times 9)) + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3245 &:= 11 \times ((11 \times (1+1+1))^{1+1+1} - (1+1)) \\
&:= 2/2 + (2 \times ((2 \times (22-2))^2 + 22)) \\
&:= 33/3 + (33 \times (3 \times 33 - 3/3)) \\
&:= 4 + (((44-4) \times (4-4/4)^4) + 4/4) \\
&:= 5^5 + (5 \times 5 \times 5 - 5) \\
&:= 66 \times 66 - (6666/6) \\
&:= 77/7 + 77 \times (7 \times 7 - 7) \\
&:= 8888 - (8 \times 8 \times 88 + (88/8)) \\
&:= 99/9 \times ((99 \times (9+9+9)) - (9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3246 &:= (1+1)^{11-1} + ((1+1) \times 1111) \\
&:= 2 + (2 \times ((2 \times (22-2))^2 + 22)) \\
&:= (3 \times (33 \times 33 - (3+3))) - 3 \\
&:= 4 \times 4^4 + 4 \times 4444/(4+4) \\
&:= 5 + ((555/5 + 5^5) + 5) \\
&:= 6 + (6 \times ((6+6+6) \times (6 \times 6 - 6))) \\
&:= (7-7/7) \times (7 \times 77 + ((7+7)/7)) \\
&:= ((8+8)/8) \times (8888/8 + 8 \times 8 \times 8) \\
&:= 9 + (((9+9) \times (99+9 \times 9)) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3247 &:= 111 + ((1+111)/(1+1))^{1+1} \\
&:= (((22/2+2 \times 22) + 2)^2) - 2 \\
&:= (3 \times (33 \times 33 - 3)) - 33/3 \\
&:= 4^4 + ((44 \times (4 \times 4 \times 4 + 4)) - 4/4) \\
&:= 5^5 + ((555+55)/5) \\
&:= 6 + ((6 \times ((6+6+6) \times (6 \times 6 - 6))) + 6/6) \\
&:= 7 + ((77 \times (7 \times 7 - 7) - 7/7) + 7) \\
&:= 888/8 + ((8 \times 8 - 8)^{(8+8)/8}) \\
&:= 9 + (((9+9) \times (99+9 \times 9)) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3248 &:= ((1 + (1 + 111)/(1 + 1))^{1+1}) - 1 \\
&:= 2 \times (((2 \times (22 - 2))^2 + 22) + 2) \\
&:= (3 \times (33 \times 33 - (3 + 3))) - 3/3 \\
&:= 4 \times ((4 \times (4 \times (44 + 4))) + 44) \\
&:= 5^5 + (5 \times 5 \times 5 - ((5 + 5)/5)) \\
&:= (6 \times 6 - (6/6 + 6)) \times (666 + 6)/6 \\
&:= 7 + (77 \times (7 \times 7 - 7) + 7) \\
&:= (8 + 8) \times (8 \times (8 + 8 + 8) + (88/8)) \\
&:= 9 + (((9 + 9) \times (99 + 9 \times 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3249 &:= (1 + (1 + 111)/(1 + 1))^{1+1} \\
&:= ((22/2 + 2 \times 22) + 2)^2 \\
&:= 3 \times (33 \times 33 - (3 + 3)) \\
&:= ((4^4 - 44)/4 + 4)^{(4+4)/4} \\
&:= 5^5 + (5 \times 5 \times 5 - 5/5) \\
&:= (((6 - 66) + 6)/6 + 66)^{(6+6)/6} \\
&:= ((7/7 + 7 \times 7) + 7)^{(7+7)/7} \\
&:= ((8/8 - 8) + 8 \times 8)^{(8+8)/8} \\
&:= 9 + ((9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3250 &:= 1 + ((1 + (1 + 111)/(1 + 1))^{1+1}) \\
&:= 2 + (2 \times (((2 \times (22 - 2))^2 + 22) + 2)) \\
&:= 3/3 + (3 \times (33 \times 33 - (3 + 3))) \\
&:= (4^4 + 4)/4 \times (((4 + 4)/4 + 44) + 4) \\
&:= 5^5 + 5 \times 5 \times 5 \\
&:= 6 + (66 \times 66 - (6666 + 6)/6) \\
&:= 7 + ((77 \times (7 \times 7 - 7) + ((7 + 7)/7)) + 7) \\
&:= 8/8 + (((8/8 - 8) + 8 \times 8)^{(8+8)/8}) \\
&:= 9 + (((9 + 9) \times (99 + 9 \times 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3251 &:= 1 + (1 + ((1 + (1 + 111)/(1 + 1))^{1+1})) \\
&:= 2 + (((22/2 + 2 \times 22) + 2)^2) \\
&:= 3333 - (3 \times 3^3 + 3/3) \\
&:= 44/4 + ((44 - 4) \times (4 - 4/4)^4) \\
&:= 5^5 + (5 \times 5 \times 5 + 5/5) \\
&:= 6 + (66 \times 66 - (6666/6)) \\
&:= 7 + (77 \times (7 \times 7 - 7) + ((77 - 7)/7)) \\
&:= (8 + 8)/8 + (((8/8 - 8) + 8 \times 8)^{(8+8)/8}) \\
&:= 99/9 + ((9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3252 &:= 1 + (1 + (1 + ((1 + (1 + 111)/(1 + 1))^{1+1}))) \\
&:= 2 \times (((2 \times (22 - 2))^2 + 22) + 2) \\
&:= 3333 - 3 \times 3^3 \\
&:= 4 + ((44 \times (4 \times 4 \times 4 + 4)) + 4^4) \\
&:= 5^5 + (5 \times 5 \times 5 + ((5 + 5)/5)) \\
&:= 6 + (((6 \times (6 + 6 + 6)) \times (6 \times 6 - 6))) + 6 \\
&:= 7 + (77 \times (7 \times 7 - 7) + (77/7)) \\
&:= 88 + (((88 \times (8 \times 8 + 8)) - 8)/((8 + 8)/8)) \\
&:= (99 + 9)/9 + ((9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3253 &:= 1 + (1 + (1 + (1 + ((1 + (1 + 111)/(1 + 1))^{1+1})))) \\
&:= 2 + (((22/2 + 2 \times 22) + 2)^2) + 2) \\
&:= 3/3 + (3333 - 3 \times 3^3) \\
&:= 4 + (((4^4 - 44)/4 + 4)^{(4+4)/4}) \\
&:= 5 + ((5 \times 5 \times 5 - ((5 + 5)/5)) + 5^5) \\
&:= 6 + (((6 \times (6 + 6 + 6)) \times (6 \times 6 - 6))) + 6/6 + 6) \\
&:= 7 + (77 \times (7 \times 7 - 7) + (77 + 7)/7) \\
&:= ((8 + 8 + 8) \times (8 \times (8 + 8) + 8)) - 88/8 \\
&:= ((99 + 9 + 9)/9) + ((9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3254 &:= ((1 + 1 + 1 + 1 + 11)^{1+1+1}) - 11^{1+1} \\
&:= 2 \times (((2 \times 22) - 2/2)^2) - 222 \\
&:= (3 \times (33 \times 33 - 3)) - (3/3 + 3) \\
&:= 4 + ((4^4 + 4)/4 \times (((4 + 4)/4 + 44) + 4)) \\
&:= 5 + ((5 \times 5 \times 5 - 5/5) + 5^5) \\
&:= 6 + ((6 \times 6 - (6/6 + 6)) \times (666 + 6)/6) \\
&:= 7 + (((77 \times (7 \times 7 - 7) - 7/7) + 7) + 7) \\
&:= (8 - 88)/8 + ((8 + 8 + 8) \times (8 \times (8 + 8) + 8)) \\
&:= 9 + (((9 + 9) \times (99 + 9 \times 9)) + ((9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3255 &:= (11 + (11 - 1)) \times (11 + (1 + 11)^{1+1}) \\
&:= 2 + (((22/2 + 2 \times 22) + 2)^2) + 2) + 2) \\
&:= (3 \times (33 \times 33 - 3)) - 3 \\
&:= (44 \times (((4^4 - 4) + 44)/4)) - 4/4 \\
&:= 5 + (5 \times 5 \times 5 + 5^5) \\
&:= ((6 \times 6 - 6) + 6/6) \times (666/6 - 6) \\
&:= 7 + ((77 \times (7 \times 7 - 7) + 7) + 7) \\
&:= 8888 - (8 \times 8 \times 88 + 8/8) \\
&:= ((99 \times 99 - 9)/(9 + 9 + 9)/9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3256 &:= 11 \times ((11 \times (1 + 1 + 1))^{1+1+1}) - 1) \\
&:= 2 \times (22 \times (2 \times (2 + 2 + 2)^2 + 2)) \\
&:= (3 \times 33 \times 33) - 33/3 \\
&:= 44 \times (((4^4 - 4) + 44)/4) \\
&:= 5 + ((5 \times 5 \times 5 + 5^5) + 5/5) \\
&:= ((6 + 6)/6 + 6) \times (6 \times 66 + (66/6)) \\
&:= 7 + (((7/7 + 7 \times 7) + 7)^{(7+7)/7}) \\
&:= 88 \times 888/(8 + 8 + 8) \\
&:= 99/9 \times ((99 \times (9 + 9 + 9) - 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3257 &:= (1 + 1)^{11} + ((11 \times (111 - 1)) - 1) \\
&:= 2/2 + (2 \times (22 \times (2 \times (2 + 2 + 2)^2 + 2))) \\
&:= (3 \times (33 \times 33 - 3)) - 3/3 \\
&:= 4/4 + (44 \times (((4^4 - 4) + 44)/4)) \\
&:= 5 + ((5 \times 5 \times 5 + ((5 + 5)/5)) + 5^5) \\
&:= 66 + (((6 - 6/6)^{6-6/6}) + 66) \\
&:= 7 + (((77 \times (7 \times 7 - 7) + ((7 + 7)/7)) + 7) + 7) \\
&:= 8 + (((8/8 - 8) + 8 \times 8)^{(8+8)/8}) \\
&:= 9 + (((9 + 9) \times (99 + 9 \times 9)) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3258 &:= (1 + 1)^{11} + (11 \times (111 - 1)) \\
&:= 2 + (2 \times (22 \times (2 \times (2 + 2 + 2)^2 + 2))) \\
&:= 3 \times (33 \times 33 - 3) \\
&:= 444 + ((4 \times 4 \times 4 \times 44) - (4 + 4)/4) \\
&:= 5 + (((5 \times 5 \times 5 - ((5 + 5)/5)) + 5^5) + 5) \\
&:= 666 + (6 \times (6 \times (66 + 6))) \\
&:= (7 - 7/7) \times ((7 \times 77 - 7) + (77/7)) \\
&:= 8 + (((8/8 - 8) + 8 \times 8)^{(8+8)/8}) + 8/8) \\
&:= 9 + (((9 + 9) \times (99 + 9 \times 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3259 &:= 1 + ((1 + 1)^{11} + (11 \times (111 - 1))) \\
&:= (((2 \times (22 + 2)) + 22/2)^2) - 222 \\
&:= 3/3 + (3 \times (33 \times 33 - 3)) \\
&:= 444 + ((4 \times 4 \times 4 \times 44) - 4/4) \\
&:= 5 + (((5 \times 5 \times 5 - 5/5) + 5^5) + 5) \\
&:= 6/6 + ((6 \times (6 \times (66 + 6))) + 666) \\
&:= 7 + ((77 \times (7 \times 7 - 7) + (77/7)) + 7) \\
&:= 8 + (((8/8 - 8) + 8 \times 8)^{(8+8)/8}) + ((8 + 8)/8)) \\
&:= 9 + (((9 + 9) \times (99 + 9 \times 9)) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3260 &:= 11 + ((1 + (1 + 111)/(1 + 1))^{1+1}) \\
&:= 2 \times (22 \times (2 \times (2 + 2 + 2)^2 + 2)) + 2) \\
&:= 3 + ((3 \times (33 \times 33 - 3)) - 3/3) \\
&:= 444 + (4 \times 4 \times 4 \times 44) \\
&:= 5 + ((5 \times 5 \times 5 + 5^5) + 5) \\
&:= 666 + ((6 \times (6 \times (66 + 6))) + ((6 + 6)/6)) \\
&:= 7 + ((77 \times (7 \times 7 - 7) + (77 + 7)/7) + 7) \\
&:= (8 \times 8 \times 88 + 888)/((8 + 8)/8) \\
&:= (99/9 + 9) \times (9 \times (9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3261 &:= 1 + (11 + ((1 + (1 + 111)/(1 + 1))^{1+1})) \\
&:= (2/2 + 2) \times ((22/2 + 22)^2 - 2) \\
&:= 3 + (3 \times (33 \times 33 - 3)) \\
&:= 4/4 + ((4 \times 4 \times 4 \times 44) + 444) \\
&:= 5 \times 5 + (555/5 + 5^5) \\
&:= (6 \times 666) - (((6 \times 6)/(6 + 6))^6 + 6) \\
&:= ((7/7 - 77) \times (7 - (7/7 + 7 \times 7))) - 7 \\
&:= 8 + (((8 + 8 + 8) \times (8 \times (8 + 8) + 8)) - (88/8)) \\
&:= (99 \times 99 - (9 + 9))/((9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3262 &:= (1 + (1 + 1 + 11)) \times (11 + (1 + 1) \times 111) \\
&:= (2^{2+2} - 2) \times (222 + 22/2) \\
&:= 3 + ((3 \times (33 \times 33 - 3)) + 3/3) \\
&:= (((4 + 4) + 4) \times (4 \times 4 + 4^4)) - (4 + 4)/4 \\
&:= 5 \times 5 + ((555 + 5)/5 + 5^5) \\
&:= 6 + (((6 + 6)/6 + 6) \times (6 \times 66 + (66/6))) \\
&:= 7 + (((77 \times (7 \times 7 - 7) + 7) + 7) + 7) \\
&:= ((8 + 8 + 8) \times (8 \times (8 + 8) + 8)) - (8 + 8)/8) \\
&:= ((9 + 9)/9) \times ((9 \times (99 + 9 \times 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3263 &:= ((1+1+1) \times ((11 \times (1+1+1))^{1+1} - 1)) - 1 \\
&:= 2 + ((2/2+2) \times ((22/2+22)^2 - 2)) \\
&:= (3 \times 33 \times 33) - (3/3+3) \\
&:= (((4+4)+4) \times (4 \times 4 + 4^4)) - 4/4 \\
&:= 5^5 + ((5 \times 5 \times 55 + 5)/(5+5)) \\
&:= (6/6+6+6) \times (6 \times (6 \times 6 + 6) - 6/6) \\
&:= 7 + (((7/7+7 \times 7) + 7)^{(7+7)/7}) + 7) \\
&:= ((8+8+8) \times (8 \times (8+8) + 8)) - 8/8 \\
&:= 9 \times (9+9) \times (9+9+9) - 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3264 &:= (1+1+1) \times ((11 \times (1+1+1))^{1+1} - 1) \\
&:= 2 \times ((2 \times 22 + 2)^2 - 22^2) \\
&:= (3 \times 33 \times 33) - 3 \\
&:= ((4+4)+4) \times (4 \times 4 + 4^4) \\
&:= 5^5 + (5 \times (5 \times 5 + 5) - (55/5)) \\
&:= (6 - 6/6) \times 666 - 66 \\
&:= (7 - 7/7) \times ((7 \times 77 - ((7+7)/7)) + 7) \\
&:= (8+8+8) \times (8 \times (8+8) + 8) \\
&:= (99 \times 99 - 9)/(9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3265 &:= 1 + ((1+1+1) \times ((11 \times (1+1+1))^{1+1} - 1)) \\
&:= ((2/2+2) \times ((22/2+22)^2) - 2) \\
&:= 3/3 + ((3 \times 33 \times 33) - 3) \\
&:= 4/4 + (((4+4)+4) \times (4 \times 4 + 4^4)) \\
&:= 5 + (((5 \times 5 \times 5 + 5^5) + 5) + 5) \\
&:= 6/6 + ((6 - 6/6) \times 666 - 66) \\
&:= 77 \times (7+7) + ((7+7+7)/7)^7 \\
&:= 8/8 + ((8+8+8) \times (8 \times (8+8) + 8)) \\
&:= 9 + ((99/9) \times ((99 \times (9+9+9) - 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3266 &:= (11 \times (11 \times (1+1+1))^{1+1+1}) - 1 \\
&:= 2 + (2 \times ((2 \times 22 + 2)^2 - 22^2)) \\
&:= (3 \times 33 \times 33) - 3/3 \\
&:= (4+4)/4 + (((4+4)+4) \times (4 \times 4 + 4^4)) \\
&:= 5 + ((555/5 + 5^5) + 5 \times 5) \\
&:= (6 - 6/6) \times 666 - ((6+6)/6)^6 \\
&:= 7 + (((77 \times (7 \times 7 - 7) + (77/7)) + 7) + 7) \\
&:= (8+8)/8 + ((8+8+8) \times (8 \times (8+8) + 8)) \\
&:= (((9+9)/9)^9) + (9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3267 &:= 11 \times (11 \times (1+1+1))^{1+1+1} \\
&:= (2/2+2) \times ((22/2+22)^2) \\
&:= 3 \times 33 \times 33 \\
&:= 4 + (((4+4)+4) \times (4 \times 4 + 4^4)) - 4/4 \\
&:= 5 + (((555+5)/5 + 5^5) + 5 \times 5) \\
&:= (6 \times 666) - ((6 \times 6)/(6+6))^6 \\
&:= 77/7 \times (7 \times (7 \times 7 - 7) + ((7+7+7)/7)) \\
&:= 88/8 + (88 \times 888/(8+8+8)) \\
&:= 9 \times (99 \times 99/(9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3268 &:= (1+1)^{11} + (11 \times 111 - 1) \\
&:= 2 \times (((2 \times 22 + 2)^2 - 22^2) + 2) \\
&:= 3/3 + (3 \times 33 \times 33) \\
&:= 4 + (((4+4)+4) \times (4 \times 4 + 4^4)) \\
&:= 55 \times 55 + ((5 - (5+5)/5)^5) \\
&:= 6/6 + ((6 \times 666) - ((6 \times 6)/(6+6))^6) \\
&:= (7/7 - 77) \times (7 - (7/7 + 7 \times 7)) \\
&:= 8 + ((8 \times 8 \times 88 + 888)/((8+8)/8)) \\
&:= 9/9 + (9 \times (99 \times 99/(9+9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3269 &:= (1+1)^{11} + 11 \times 111 \\
&:= 2 + ((2/2+2) \times ((22/2+22)^2)) \\
&:= 3 + ((3 \times 33 \times 33) - 3/3) \\
&:= 4 + (((4+4)+4) \times (4 \times 4 + 4^4)) + 4/4 \\
&:= 5^5 + ((5/5+5) \times (5 \times 5 - 5/5)) \\
&:= (6/6+6) \times ((6 \times (66+6+6)) - 6/6) \\
&:= (7 - 7/7) \times (7 \times 77 + 7) - 7 \\
&:= (8 - 8/8) \times ((8 \times (8 \times 8 - 8) + (88/8)) + 8) \\
&:= 9 + ((99/9+9) \times (9 \times (9+9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3270 &:= 1 + ((1+1)^{11} + 11 \times 111) \\
&:= 2 \times 22^2 + (((2 \times (22+2))^2) - 2) \\
&:= 3 + (3 \times 33 \times 33) \\
&:= 4 + (((4+4)+4) \times (4 \times 4 + 4^4)) + (4+4)/4 \\
&:= 5^5 + (5 \times (5 \times 5 + 5) - 5) \\
&:= (6 - 6/6) \times (666 - (6+6)) \\
&:= (7 - 7/7) \times ((7 \times 77 - 7/7) + 7) \\
&:= 8 + (((8+8+8) \times (8 \times (8+8) + 8)) - ((8+8)/8)) \\
&:= (99 \times 99 + 9)/(9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3271 &:= 1 + (1 + ((1+1)^{11} + 11 \times 111)) \\
&:= 22 + (((22/2+2 \times 22) + 2)^2) \\
&:= 3 + ((3 \times 33 \times 33) + 3/3) \\
&:= 444 + (44/4 \times (4/4 + 4^4)) \\
&:= 5^5 + ((5 \times (5 \times 5 + 5) - 5) + 5/5) \\
&:= 6/6 + ((6 - 6/6) \times (666 - (6+6))) \\
&:= 7 + (((7 \times 7 + 7)^{(7+7)/7}) + ((7+7)/7)^7) \\
&:= 8 + (((8+8+8) \times (8 \times (8+8) + 8)) - 8/8) \\
&:= ((9 \times 9 \times 9 \times 9 - 9/9)/(9+9)/9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3272 &:= 1 + (1 + (1 + ((1+1)^{11} + 11 \times 111))) \\
&:= 2 \times ((2 \times ((22+2)^2)) + 22^2) \\
&:= 3 + (((3 \times 33 \times 33) - 3/3) + 3) \\
&:= 4 + (((4+4)+4) \times (4 \times 4 + 4^4)) + 4 \\
&:= 5 \times 5 + (((555+55)/5) + 5^5) \\
&:= 6 + ((6 - 6/6) \times 666 - ((6+6)/6)^6) \\
&:= 7 + (((7+7+7)/7)^7 + 77 \times (7+7)) \\
&:= 8 + ((8+8+8) \times (8 \times (8+8) + 8)) \\
&:= ((9 \times 9 \times 9 \times 9 + 9/9)/(9+9)/9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3273 &:= (1+1+1) \times (1 + (1 + ((11 \times (1+1+1))^{1+1}))) \\
&:= (2/2+2) \times ((22/2+22)^2 + 2) \\
&:= 3 + ((3 \times 33 \times 33) + 3) \\
&:= 4 + (((4+4)+4) \times (4 \times 4 + 4^4)) + 4/4 + 4) \\
&:= 5^5 + (5 \times (5 \times 5 + 5) - ((5+5)/5)) \\
&:= 6 + ((6 \times 666) - ((6 \times 6)/(6+6))^6) \\
&:= 7 \times 7 + (77 \times (7 \times 7 - 7) + ((7 - 77)/7)) \\
&:= 8 + (((8+8+8) \times (8 \times (8+8) + 8)) + 8/8) \\
&:= 9 + ((99 \times 99 - 9)/(9+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3274 &:= 1 + ((1+1+1) \times (1 + (1 + ((11 \times (1+1+1))^{1+1})))) \\
&:= 2 + (((2 \times (22+2))^2) + 2 \times 22^2) \\
&:= 3 + (((3 \times 33 \times 33) + 3/3) + 3) \\
&:= (44 - 4)/4 + (((4+4)+4) \times (4 \times 4 + 4^4)) \\
&:= 5^5 + (5 \times (5 \times 5 + 5) - 5/5) \\
&:= ((6 \times 6 + 6) \times (66 + 6 + 6)) - (6+6)/6 \\
&:= (7 - 7/7) \times (7 \times 77 + 7) - (7+7)/7 \\
&:= 8 + (((8+8+8) \times (8 \times (8+8) + 8)) + ((8+8)/8)) \\
&:= (9 \times ((9 \times 9 \times 9 \times 9 - 9)/(9+9))) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3275 &:= ((11 \times (1+11)) - 1) \times (1 + ((1+1) \times (1+11))) \\
&:= ((2/2+2)^{2 \times (2+2)} - 22/2)/2 \\
&:= (3 \times (33 \times 33 + 3)) - 3/3 \\
&:= 44/4 + (((4+4)+4) \times (4 \times 4 + 4^4)) \\
&:= 5^5 + 5 \times (5 \times 5 + 5) \\
&:= (6 - 6/6) \times (666 - 66/6) \\
&:= (7 - 7/7) \times (7 \times 77 + 7) - 7/7 \\
&:= 88/8 + ((8+8+8) \times (8 \times (8+8) + 8)) \\
&:= (9 \times 9 \times 9 \times 9 - (99/9))/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3276 &:= (1+11) \times ((1+1+11) \times (11 + (11-1))) \\
&:= 2 \times (2 \times (22+2)^2 + 22^2 + 2) \\
&:= 3 \times (33 \times 33 + 3) \\
&:= (4^4 - 4) \times ((4/4+4+4) + 4) \\
&:= 5^5 + (5 \times (5 \times 5 + 5) + 5/5) \\
&:= (6 \times 6 + 6) \times (66 + 6 + 6) \\
&:= (7 - 7/7) \times (7 \times 77 + 7) \\
&:= (8/8 - 8 \times 8) \times ((88+8)/8 - 8 \times 8) \\
&:= 9 \times ((9 \times 9 \times 9 \times 9 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3277 &:= (1+1+111) \times (((11-1) \times (1+1+1)) - 1) \\
&:= 2 + ((2/2+2)^{2 \times (2+2)} - 22/2)/2 \\
&:= 3/3 + (3 \times (33 \times 33 + 3)) \\
&:= 4/4 + ((4^4 - 4) \times ((4/4+4+4) + 4)) \\
&:= 5^5 + (5 \times (5 \times 5 + 5) + ((5+5)/5)) \\
&:= 6/6 + ((6 \times 6 + 6) \times (66 + 6 + 6)) \\
&:= 7/7 + (7 - 7/7) \times (7 \times 77 + 7) \\
&:= (((88/8 - 8)^8) - 8) + 8/8)/((8+8)/8) \\
&:= 9/9 + (9 \times ((9 \times 9 \times 9 \times 9 - 9)/(9+9)))
\end{aligned}$$

- ▶ 3278 := $11 \times (1 + (11 \times (1 + 1 + 1)^{1+1+1}))$
:= $22 \times ((22/2 + 2)^2 - 22 + 2)$
:= $33/3 + (3 \times 33 \times 33)$
:= $44/4 \times ((4^4 - (4 + 4)/4) + 44)$
:= $5 + ((5 \times (5 \times 5 + 5) - ((5 + 5)/5)) + 5^5)$
:= $(6 + 6)/6 + ((6 \times 6 + 6) \times (66 + 6 + 6))$
:= $(7 + 7)/7 + (7 - 7/7) \times (7 \times 77 + 7)$
:= $((8 \times 8 - 88/8) \times (8 \times 8 - ((8 + 8)/8))) - 8$
:= $99/9 \times ((99 \times (9 + 9 + 9) + 9)/9)$
- ▶ 3279 := $(1 + 1)^{11} + ((11 \times (1 + 111)) - 1)$
:= $((2/2 + 2)^{2 \times (2+2)} + 2/2)/2 - 2$
:= $3 + (3 \times (33 \times 33 + 3))$
:= $4^4 + (((4 + 4) + 4) \times (4^4 - 4)) - 4/4$
:= $5 + ((5 \times (5 \times 5 + 5) - 5/5) + 5^5)$
:= $666/6 + (66 \times (6 \times 6 + 6 + 6))$
:= $7 + (((7 + 7 + 7)/7)^7 + 77 \times (7 + 7) + 7)$
:= $8 + (((8 + 8 + 8) \times (8 \times (8 + 8) + 8)) - 8/8) + 8$
:= $9 + ((99 \times 99 + 9)/(9 + 9 + 9)/9)$
- ▶ 3280 := $(1 + 1)^{11} + (11 \times (1 + 111))$
:= $((2/2 + 2)^{2 \times (2+2)} - 2/2)/2$
:= $3 + ((3 \times (33 \times 33 + 3)) + 3/3)$
:= $4 \times (((4 + 4)^4) + 4)/(4/4 + 4)$
:= $5 + (5 \times (5 \times 5 + 5) + 5^5)$
:= $(6 - 6/6) \times (((6 - 66)/6) + 666)$
:= $7 \times 7 + (77 \times (7 \times 7 - 7) - ((7 + 7 + 7)/7))$
:= $8 + (((8 + 8 + 8) \times (8 \times (8 + 8) + 8)) + 8)$
:= $(9 \times 9 \times 9 \times 9 - 9/9)/(9 + 9 + 9)$
- ▶ 3281 := $1 + ((1 + 1)^{11} + (11 \times (1 + 111)))$
:= $((2/2 + 2)^{2 \times (2+2)} + 2/2)/2$
:= $3 + ((3 \times 33 \times 33) + 33/3)$
:= $4/4 + (((4 + 4) + 4) \times (4^4 - 4) + 4^4)$
:= $5^5 + ((5^5 - 5)/(5 \times 5 - 5))$
:= $6 + ((6 - 6/6) \times (666 - 66/6))$
:= $7 \times 7 + (77 \times (7 \times 7 - 7) - ((7 + 7 + 7)/7))$
:= $(8/8 + 8 + 8) \times (8 \times (8 + 8 + 8) + 8/8)$
:= $(9 \times 9 \times 9 \times 9 + 9/9)/(9 + 9 + 9)$
- ▶ 3282 := $1 + (1 + ((1 + 1)^{11} + (11 \times (1 + 111))))$
:= $2 + ((2/2 + 2)^{2 \times (2+2)} - 2/2)/2$
:= $3 + ((3 \times (33 \times 33 + 3)) + 3)$
:= $4 + (44/4 \times ((4^4 - (4 + 4)/4) + 44))$
:= $5^5 + (((5 + 5)/5)^5 + 5 \times 5 \times 5)$
:= $6 + ((6 \times 6 + 6) \times (66 + 6 + 6))$
:= $7 \times 7 + (77 \times (7 \times 7 - 7) - 7/7)$
:= $((8 - 888)/8) + (8 \times (8 \times 8 \times 8 - 88))$
:= $9 + (((99 \times 99 - 9)/(9 + 9 + 9)/9) + 9)$
- ▶ 3283 := $1 + (1 + (1 + ((1 + 1)^{11} + (11 \times (1 + 111))))))$
:= $2 + ((2/2 + 2)^{2 \times (2+2)} + 2/2)/2$
:= $3 + (((3 \times (33 \times 33 + 3)) + 3/3) + 3)$
:= $((44 + 4/4) + 4) \times (((4^4 - 4)/4) + 4)$
:= $5^5 + 5 \times ((5 + 5)/5)^5 - (5 + 5)/5$
:= $6 + (((6 \times 6 + 6) \times (66 + 6 + 6)) + 6/6)$
:= $7 \times ((77 \times (7 - 7/7)) + 7)$
:= $8 + (((8 + 8 + 8) \times (8 \times (8 + 8) + 8)) + (88/8))$
:= $(9 \times ((9 \times 9 \times 9 \times 9 + 9)/(9 + 9))) - (9 + 9)/9$
- ▶ 3284 := $1 + (1 + (1 + (1 + ((1 + 1)^{11} + (11 \times (1 + 111))))))$
:= $2 \times ((2 \times (22 - 2))^2 - 2 + 2 \times 22)$
:= $(3 \times ((33 \times 33 + 3) + 3)) - 3/3$
:= $4 + (((4 + 4) + 4) \times (4^4 - 4)) + 4^4$
:= $5^5 + ((55 + 5^5)/(5 \times 5 - 5))$
:= $6 + (((6 \times 6 + 6) \times (66 + 6 + 6)) + ((6 + 6)/6))$
:= $7/7 + (77 \times (7 \times 7 - 7) + 7 \times 7)$
:= $8 + ((8/8 - 8 \times 8) \times ((88 + 8)/8 - 8 \times 8))$
:= $(9 \times ((9 \times 9 \times 9 \times 9 + 9)/(9 + 9))) - 9/9$
- ▶ 3285 := $(1 + 1 + 1) \times (1111 - (1 + 1)^{1+1+1+1})$
:= $2 + 2 + ((2/2 + 2)^{2 \times (2+2)} + 2/2)/2$
:= $3 \times ((33 \times 33 + 3) + 3)$
:= $(4 - 4/4) \times (4444/4 - 4 \times 4)$
:= $5^5 + (5 \times ((5 + 5)/5)^5)$
:= $6 + ((66 \times (6 \times 6 + 6 + 6)) + 666/6)$
:= $7 \times 7 + (77 \times (7 \times 7 - 7) + ((7 + 7)/7))$
:= $(88/8 - 8) \times (8888/8 - (8 + 8))$
:= $9 \times ((9 \times 9 \times 9 \times 9 + 9)/(9 + 9))$
- ▶ 3286 := $((1 + 1 + 1) \times (1111 - (1 + 11))) - 11$
:= $2 \times ((2 \times 22 - 2)^2 - (22/2)^2)$
:= $3/3 + (3 \times ((33 \times 33 + 3) + 3))$
:= $(4^4 - 44)/4 \times (4^4 - 4 - 4)/4$
:= $5 + (5^5 - 5)/(5 \times 5 - 5) + 5^5$
:= $6 + ((6 - 6/6) \times (((6 - 66)/6) + 666))$
:= $7 \times 7 + (77 \times (7 \times 7 - 7) + ((7 + 7 + 7)/7))$
:= $(8 \times 8 - 88/8) \times (8 \times 8 - ((8 + 8)/8))$
:= $9/9 + (9 \times ((9 \times 9 \times 9 \times 9 + 9)/(9 + 9)))$
- ▶ 3287 := $1 + (((1 + 1 + 1) \times (1111 - (1 + 11))) - 11)$
:= $((2 - 22^2)/2) + (2 \times (2 \times 22 - 2)^2)$
:= $33/3 + (3 \times (33 \times 33 + 3))$
:= $4 + (((44 + 4/4) + 4) \times (((4^4 - 4)/4) + 4))$
:= $5 + ((5 + 5)/5)^5 + 5 \times 5 \times 5 + 5^5$
:= $66/6 + ((6 \times 6 + 6) \times (66 + 6 + 6))$
:= $77/7 + (7 - 7/7) \times (7 \times 77 + 7)$
:= $((8 - 8/8 + 8) \times 88^{8-8}) - 88$
:= $(9/9 + 9 + 9) \times (99/9 + 9 \times (9 + 9))$
- ▶ 3288 := $(1 + 11) \times ((11 \times (1 + ((1 + 1) \times (1 + 11)))) - 1)$
:= $2 \times ((2 \times (22 - 2))^2 + 2 \times 22)$
:= $3 + (3 \times ((33 \times 33 + 3) + 3))$
:= $(4 + 4) \times 444 - (4^4 + 4 + 4)$
:= $((55 + 5)/5) \times (5 \times 55 - 5/5)$
:= $6 + (((6 \times 6 + 6) \times (66 + 6 + 6)) + 6)$
:= $(7 - 7/7) \times ((7 \times 77 + ((7 + 7)/7)) + 7)$
:= $88 + ((8 + 8) \times (8 \times (8 + 8 + 8) + 8))$
:= $9 + (((99 \times 99 + 9)/(9 + 9 + 9)/9) + 9)$
- ▶ 3289 := $11 \times (11 + ((1 + 1) \times (1 + 11)^{1+1}))$
:= $22/2 \times (((22 + 2)^2) + 22)/2$
:= $3333 - (33/3 + 33)$
:= $44/4 \times ((44 - 4/4) + 4^4)$
:= $55 \times (55 + 5) - 55/5$
:= $(6/6 + 6 + 6) \times (6 \times (6 \times 6 + 6) + 6/6)$
:= $7 + ((77 \times (7 \times 7 - 7) - 7/7) + 7 \times 7)$
:= $888 + ((8 - 8/8)^{8 \times 8/(8+8)})$
:= $9 + ((9 \times 9 \times 9 \times 9 - 9/9)/(9 + 9 + 9)/9)$
- ▶ 3290 := $(11 - 1) \times (((1 + 1 + 1) \times (111 - 1)) - 1)$
:= $2 + (2 \times ((2 \times (22 - 2))^2 + 2 \times 22))$
:= $3 + ((3 \times (33 \times 33 + 3)) + 33/3)$
:= $4 + ((4^4 - 44)/4 \times (4^4 - 4 - 4)/4)$
:= $55 \times (55 + 5) - 5 - 5$
:= $(6 - 6/6) \times (666 - ((6 + 6)/6 + 6))$
:= $7 + (77 \times (7 \times 7 - 7) + 7 \times 7)$
:= $8 + ((8 \times (8 \times 8 \times 8 - 88)) + ((8 - 888)/8))$
:= $9 + ((9 \times 9 \times 9 \times 9 + 9/9)/(9 + 9 + 9)/9)$
- ▶ 3291 := $(1 + 1)^{11} + (11 \times (1 + 1 + 111))$
:= $2 + (22/2 \times (((22 + 2)^2) + 22)/2)$
:= $3^3 + ((3 \times 33 \times 33) - 3)$
:= $(4 + 4) \times 444 - ((4/4 + 4^4) + 4)$
:= $55 + (555/5 + 5^5)$
:= $6666 \times 6/(6 + 6) - (6 \times 6 + 6)$
:= $7 + ((77 \times (7 \times 7 - 7) + 7 \times 7) + 7/7)$
:= $8 + (((8 + 8 + 8) \times (8 \times (8 + 8) + 8)) + (88/8) + 8)$
:= $((9 + 9 + 9)/9) \times (((99 \times 99 - 9)/9) + 9)$
- ▶ 3292 := $1 + ((1 + 1)^{11} + (11 \times (1 + 1 + 111)))$
:= $2 \times (2222 - ((22 + 2)^2))$
:= $3 + (3333 - (33/3 + 33))$
:= $(4 + 4) \times 444 - (4^4 + 4)$
:= $55 + ((555 + 5)/5 + 5^5)$
:= $(6 \times 666) - ((66/6) \times ((6 + 6)/6)^6)$
:= $7 + ((77 \times (7 \times 7 - 7) + ((7 + 7)/7)) + 7 \times 7)$
:= $((8 \times (888 - 8 \times 8)) - 8)/(8 + 8/8)$
:= $9 + ((9 \times ((9 \times 9 \times 9 \times 9 + 9)/(9 + 9))) - ((9 + 9)/9))$

$$\begin{aligned}
\blacktriangleright 3293 &:= ((1+1+1) \times (1111 - (1+1+11))) - 1 \\
&:= 2/2 + (2 \times (2222 - ((22+2)^2))) \\
&:= 3^3 + ((3 \times 33 \times 33) - 3/3) \\
&:= 4 + (44/4 + ((44-4/4) + 4^4)) \\
&:= 55 \times (55+5) - ((5+5)/5+5) \\
&:= (6 \times (666-6)) - (666+6/6) \\
&:= ((7-7/7) \times (7 \times 77 + (77/7))) - 7 \\
&:= (8/8+88) \times 888/(8+8+8) \\
&:= 9 + ((9 \times (9 \times 9 \times 9 \times 9)/9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3294 &:= (1+1+1) \times (1111 - (1+1+11)) \\
&:= 2 + (2 \times (2222 - ((22+2)^2))) \\
&:= 3 \times (33 \times 33 + 3 \times 3) \\
&:= (4+4) \times 444 - ((4+4)/4 + 4^4) \\
&:= 55 \times (55+5) - (5/5+5) \\
&:= (6 \times (666-6)) - 666 \\
&:= 7 \times 7 + (77 \times (7 \times 7 - 7) + (77/7)) \\
&:= 8 + ((8 \times 8 - 88/8) \times (8 \times 8 - ((8+8)/8))) \\
&:= 9 + (9 \times (9 \times 9 \times 9 \times 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3295 &:= 1 + ((1+1+1) \times (1111 - (1+1+11))) \\
&:= (2 \times (2 \times 22)^2) - (((22+2)^2) + 2/2) \\
&:= 3^3 + ((3 \times 33 \times 33) + 3/3) \\
&:= (4+4) \times 444 - (4/4 + 4^4) \\
&:= 55 \times (55+5) - 5 \\
&:= (6-6/6) \times (666-6/6-6) \\
&:= 7 \times 7 \times (77-7) - (((7+7)/7)^7 + 7) \\
&:= 8 + (((8-8/8+8)^{88/8-8}) - 88) \\
&:= ((9-9/9) \times (((9+9)/9)^9) - 99) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3296 &:= ((1+1+1) \times (1111 - (1+11))) - 1 \\
&:= 2 \times (2^{22/2} - (22-2)^2) \\
&:= 3333 - (3/3 + 33 + 3) \\
&:= (4+4) \times 444 - 4^4 \\
&:= 5/5 + (55 \times (55+5) - 5) \\
&:= 6 + ((6-6/6) \times (666 - ((6+6)/6 + 6))) \\
&:= (7 \times (((7+7)/7)^7 + 7 \times 7 \times 7)) - 7/7 \\
&:= 8 \times ((888 - 8 \times 8)/(8+8)/8) \\
&:= 9 + ((9/9 + 9 + 9) \times (99/9 + 9 \times (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3297 &:= (1+1+1) \times (1111 - (1+11)) \\
&:= 2/2 + (2 \times (2^{22/2} - (22-2)^2)) \\
&:= 3333 - (33+3) \\
&:= 4/4 + ((4+4) \times 444 - 4^4) \\
&:= (5+5)/5 + (55 \times (55+5) - 5) \\
&:= 6666 \times 6/(6+6) - 6 \times 6 \\
&:= 7 \times (((7+7)/7)^7 + 7 \times 7 \times 7) \\
&:= 8 + (((8-8/8)^{8 \times 8/(8+8)}) + 888) \\
&:= ((9+9+9)/9) \times (((99 \times 99 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3298 &:= 1 + ((1+1+1) \times (1111 - (1+11))) \\
&:= 2 + (2 \times (2^{22/2} - (22-2)^2)) \\
&:= 3/3 + (3333 - (33+3)) \\
&:= (4+4)/4 + ((4+4) \times 444 - 4^4) \\
&:= 55 \times (55+5) - (5+5)/5 \\
&:= (((6+6)/6)^{6+6}) - (66 \times (6+6) + 6) \\
&:= 7/7 + (7 \times (((7+7)/7)^7 + 7 \times 7 \times 7)) \\
&:= (8/8+8+8) \times (8 \times (8+8+8) + ((8+8)/8)) \\
&:= 9999/9 + 9 \times 9 \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3299 &:= ((1+1+1) \times (1111 - 11)) - 1 \\
&:= 22^2 + (((22 \times 2^{2 \times (2+2)}) - 2)/2) \\
&:= 3333 - 3/3 - 33 \\
&:= (44 \times ((44+4^4)/4)) - 4/4 \\
&:= 55 \times (55+5) - 5/5 \\
&:= ((6-6/6) \times (666-6)) - 6/6 \\
&:= 77 + ((7-7/7) \times (7 \times 77 - ((7+7)/7))) \\
&:= 88 + (((8+8) \times (8 \times (8+8+8) + 8)) + (88/8)) \\
&:= 9 + (((9 \times 9 \times 9 \times 9)/9) - ((9+9)/9)) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3300 &:= (1+1+1) \times (1111 - 11) \\
&:= 22 \times ((2 \times 2^{2+2+2}) + 22) \\
&:= 3333 - 33 \\
&:= 44 \times ((44+4^4)/4) \\
&:= 55 \times (55+5) \\
&:= (6-6/6) \times (666-6) \\
&:= (7-7/7) \times (7 \times 77 + (77/7)) \\
&:= (88/((8+8)/8)) \times (88/8 + 8 \times 8) \\
&:= (9/9+99) \times (99/((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3301 &:= 1 + ((1+1+1) \times (1111 - 11)) \\
&:= 2/2 + (22 \times ((2 \times 2^{2+2+2}) + 22)) \\
&:= 3/3 + (3333 - 33) \\
&:= 4/4 + (44 \times ((44+4^4)/4)) \\
&:= 5/5 + 55 \times (55+5) \\
&:= 6/6 + ((6-6/6) \times (666-6)) \\
&:= (7 \times (777+7)) - ((7+7+7)/7)^7 \\
&:= 8 + ((8/8+88) \times 888/(8+8+8)) \\
&:= 9 \times 9 + ((99/9+9) \times (9 \times (9+9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3302 &:= 1 + (1 + ((1+1+1) \times (1111 - 11))) \\
&:= (22/2 + 2) \times (2^{2 \times (2+2)} - 2) \\
&:= 3 + (3333 - (3/3 + 33)) \\
&:= (4+4)/4 + (44 \times ((44+4^4)/4)) \\
&:= (5+5)/5 + 55 \times (55+5) \\
&:= (6+6)/6 + ((6-6/6) \times (666-6)) \\
&:= 7 \times 7 \times (77-7) - ((7+7)/7)^7 \\
&:= (8 \times (8+8) - 8/8) \times (((8+8)/8) + 8) + 8 \\
&:= ((9+9) \times ((99+9 \times 9) + 9)) - (9/9+99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3303 &:= (1+1+1) \times (1 + (1111 - 11)) \\
&:= 22 + ((2/2 + 2)^{2 \times (2+2)} + 2/2)/2 \\
&:= 3 + (3333 - 33) \\
&:= 4 + ((44 \times ((44+4^4)/4)) - 4/4) \\
&:= 5 + (55 \times (55+5) - ((5+5)/5)) \\
&:= 6 + (6666 \times 6/(6+6) - 6 \times 6) \\
&:= 77 + (77 \times (7 \times 7 - 7) - (7/7+7)) \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - (8/8+88) \\
&:= ((9+9) \times ((99+9 \times 9) + 9)) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3304 &:= 1 + ((1+1+1) \times (1 + (1111 - 11))) \\
&:= 2 + ((22/2 + 2) \times (2^{2 \times (2+2)} - 2)) \\
&:= 3 + ((3333 - 33) + 3/3) \\
&:= 4 + (44 \times ((44+4^4)/4)) \\
&:= 5 + (55 \times (55+5) - 5/5) \\
&:= (((6+6)/6)^{6+6}) - 66 \times (6+6) \\
&:= 77 + (77 \times (7 \times 7 - 7) - 7) \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - 88 \\
&:= (9-9/9) \times (((9+9)/9)^9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3305 &:= 1 + (1 + ((1+1+1) \times (1 + (1111 - 11)))) \\
&:= (2 \times 22)^2 + (((2+2+2)^2 + 2/2)^2) \\
&:= 3333 - (3^3 + 3/3) \\
&:= 4 + ((44 \times ((44+4^4)/4)) + 4/4) \\
&:= 5 + 55 \times (55+5) \\
&:= (6-6/6) \times ((666-6) + 6/6) \\
&:= 7/7 + ((77 \times (7 \times 7 - 7) - 7) + 77) \\
&:= 8/8 + ((8 \times (8 \times 8 \times 8 - 88)) - 88) \\
&:= 9/9 + ((9-9/9) \times (((9+9)/9)^9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3306 &:= (1+1+1) \times (1 + (1 + (1111 - 11))) \\
&:= (2 \times (2 \times 22 - 2)^2) - 222 \\
&:= 3333 - 3^3 \\
&:= 4 + ((44 \times ((44+4^4)/4)) + (4+4)/4) \\
&:= 5 + (55 \times (55+5) + 5/5) \\
&:= 6 + ((6-6/6) \times (666-6)) \\
&:= (7-7/7) \times ((77+7)/7 + 7 \times 77) \\
&:= (8+8)/8 + ((8 \times (8 \times 8 \times 8 - 88)) - 88) \\
&:= ((9+9+9)/9) \times (9999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3307 &:= 1 + ((1+1+1) \times (1 + (1 + (1111 - 11)))) \\
&:= 2/2 + ((2 \times (2 \times 22 - 2)^2) - 222) \\
&:= 3/3 + (3333 - 3^3) \\
&:= 44/4 + ((4+4) \times 444 - 4^4) \\
&:= 5 + (55 \times (55+5) + ((5+5)/5)) \\
&:= 6 + (((6-6/6) \times (666-6)) + 6/6) \\
&:= 7 + (((7-7/7) \times (7 \times 77 + (77/7)))) \\
&:= 88 + ((8 \times 8 \times 8 - 888) + (88/8)) \\
&:= 9 + (9999/9 + 9 \times 9 \times (9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3308 &:= 1111 + ((1 + 1 + 11)^{1+1+1}) \\
&:= 2 + ((2 \times (2 \times 22 - 2)^2) - 222) \\
&:= 3 + (3333 - (3^3 + 3/3)) \\
&:= (44 \times (4 - 4/4)^4) - 4^4 \\
&:= 5 + ((55 \times (55 + 5) - ((5 + 5)/5)) + 5) \\
&:= 6 + (((6 - 6/6) \times (666 - 6)) + ((6 + 6)/6)) \\
&:= 7 + ((7 \times (777 + 7)) - ((7 + 7 + 7)/7)^7) \\
&:= 8 + ((88/((8 + 8)/8)) \times (88/8 + 8 \times 8)) \\
&:= 9 + (((9 \times 9 \times 9 \times 9 + 9/9)/(9 + 9)/9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3309 &:= 1 + (1111 + ((1 + 1 + 11)^{1+1+1})) \\
&:= (2/2 + 2) \times ((2222/2) - 2 \times (2 + 2)) \\
&:= 3 + (3333 - 3^3) \\
&:= 4/4 + ((44 \times (4 - 4/4)^4) - 4^4) \\
&:= 5 + ((55 \times (55 + 5) - 5/5) + 5) \\
&:= ((6666 - 6 \times 6)/(6 + 6)/6) - 6 \\
&:= 7 + (7 \times 7 \times (77 - 7) - ((7 + 7)/7)^7) \\
&:= (88/8 - 8) \times (8888/8 - 8) \\
&:= 9 + ((9/9 + 99) \times (99/((9 + 9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3310 &:= (11 - 1) \times (1 + ((1 + 1 + 1) \times (111 - 1))) \\
&:= (2^{2+2} \times 222) - 22^2/2 \\
&:= 3 + ((3333 - 3^3) + 3/3) \\
&:= (4 + 4)/4 + ((44 \times (4 - 4/4)^4) - 4^4) \\
&:= 5 + (55 \times (55 + 5) + 5) \\
&:= 6 + (((6 + 6)/6)^{6+6}) - 66 \times (6 + 6) \\
&:= 77 + (77 \times (7 \times 7 - 7) - 7/7) \\
&:= 8 + ((8 \times (8 + 8) - 8/8) \times (((8 + 8)/8) + 8) + 8) + 8) \\
&:= 9 \times 9 + (((9 + 9) \times (99 + 9 \times 9)) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3311 &:= 11 + ((1 + 1 + 1) \times (1111 - 11)) \\
&:= 222/2 + (2 \times (2 \times (22 - 2)^2)) \\
&:= 33/3 + (3333 - 33) \\
&:= 44/4 \times ((44 + 4^4) + 4/4) \\
&:= 55/5 + 55 \times (55 + 5) \\
&:= 6 + ((6 - 6/6) \times ((666 - 6) + 6/6)) \\
&:= 77 + 77 \times (7 \times 7 - 7) \\
&:= ((8 - 8/8 + 8)^{88/8-8}) - 8 \times 8 \\
&:= 9 \times 9 + ((9/9 + 9) \times ((9 + 9) \times (9 + 9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3312 &:= (1 + 11)^{1+1} \times (1 + (11 + 11)) \\
&:= 2 \times (((2 \times 22) + 2) \times (2 + 2 + 2)^2) \\
&:= 3 + ((3333 - 3^3) + 3) \\
&:= 4 \times ((4 \times (4 \times (44 + 4 + 4))) - 4) \\
&:= ((55 + 5)/5) + 55 \times (55 + 5) \\
&:= (6 + 6) \times (6 \times 6 \times 6 - 6 + 66) \\
&:= 7/7 + (77 \times (7 \times 7 - 7) + 77) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 88)) - 88) \\
&:= 9 \times 9 + (((9 + 9) \times (99 + 9 \times 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3313 &:= 1 + ((1 + 11)^{1+1} \times (1 + (11 + 11))) \\
&:= 2 + ((2 \times (2 \times (22 - 2))^2) + 222/2) \\
&:= 3333 - (33/3 + 3 \times 3) \\
&:= 4/4 + (4 \times ((4 \times (4 \times (44 + 4 + 4))) - 4)) \\
&:= 5^5 + (((5 - (5 + 5)/5)^5) - 55) \\
&:= 6/6 + ((6 + 6) \times (6 \times 6 \times 6 - 6 + 66)) \\
&:= 77 + (77 \times (7 \times 7 - 7) + ((7 + 7)/7)) \\
&:= 8 \times 8 + (((8/8 - 8) + 8 \times 8)^{(8+8)/8}) \\
&:= 9 + ((9 - 9/9) \times (((9 + 9)/9)^9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3314 &:= 1 + (1 + ((1 + 11)^{1+1} \times (1 + (11 + 11)))) \\
&:= 2 + (2 \times (((2 \times 22) + 2) \times (2 + 2 + 2)^2)) \\
&:= 3333 - ((3 \times (3 + 3)) + 3/3) \\
&:= (4 + 4)/4 + (4 \times ((4 \times (4 \times (44 + 4 + 4))) - 4)) \\
&:= 5 + (((55 \times (55 + 5) - 5/5) + 5) + 5) \\
&:= ((6 - 6/6) \times (666 - ((6 + 6)/6))) - 6 \\
&:= 7 + (((7 - 7/7) \times (7 \times 77 + (77/7))) + 7) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 - 88)) - 88) + ((8 + 8)/8)) \\
&:= 9 + (((9 - 9/9) \times (((9 + 9)/9)^9) - 99) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3315 &:= (1 + 1 + 1) \times (1111 - ((1 + 1) \times (1 + 1 + 1))) \\
&:= (22/2 + 2) \times (2^{2 \times (2+2)} - 2/2) \\
&:= 3333 - (3 \times (3 + 3)) \\
&:= (4^4 - 4/4) \times ((4/4 + 4 + 4) + 4) \\
&:= 5 + ((55 \times (55 + 5) + 5) + 5) \\
&:= (6666 - 6 \times 6)/(6 + 6)/6 \\
&:= 77 + ((77 \times (7 \times 7 - 7) - 7) + (77/7)) \\
&:= 88/8 + ((8 \times (8 \times 8 \times 8 - 88)) - 88) \\
&:= (9999/(9 + 9 + 9)/9) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3316 &:= ((1 + 1 + 1) \times (1111 - (1 + 1))) - 11 \\
&:= 2 \times (((2 \times 22) + 2) \times (2 + 2 + 2)^2) + 2) \\
&:= 3/3 + (3333 - (3 \times (3 + 3))) \\
&:= 4 + (4 \times ((4 \times (4 \times (44 + 4 + 4))) - 4)) \\
&:= 5 + (55 \times (55 + 5) + (55/5)) \\
&:= 6 + (((6 + 6)/6)^{6+6}) - 66 \times (6 + 6) + 6) \\
&:= 7 + ((7 \times 7 \times (77 - 7) - ((7 + 7)/7)^7) + 7) \\
&:= 8 \times (8 \times 8 \times 8 - 88 - 8) - (88 + 8)/8 \\
&:= (9 \times (9 \times 9 \times 9 + 9) - (9/9 + 9))/(9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3317 &:= 1 + (((1 + 1 + 1) \times (1111 - (1 + 1))) - 11) \\
&:= 2 + ((22/2 + 2) \times (2^{2 \times (2+2)} - 2/2)) \\
&:= 33/3 + (3333 - 3^3) \\
&:= 4^4 + ((4^4 \times ((4 + 4) + 4)) - 44/4) \\
&:= 5^5 + ((5/5 + 5) \times ((5 + 5)/5)^5) \\
&:= (6 - 6/6) \times 666 - (6/6 + 6 + 6) \\
&:= 7 + ((77 \times (7 \times 7 - 7) - 7/7) + 77) \\
&:= 8 \times (8 \times 8 \times 8 - 88 - 8) - 88/8 \\
&:= ((99 - 9/9) + 9) \times (((99 + 99)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3318 &:= ((1 + 1 + 1) \times (1111 - 1)) - 1 - 11 \\
&:= 2 \times (((2 \times (22 - 2) + 2/2)^2) - 22) \\
&:= 3 + (3333 - (3 \times (3 + 3))) \\
&:= (4 - 4/4) \times ((4444 - 4)/4 - 4) \\
&:= (5/5 + 5) \times (555 - (5 + 5)/5) \\
&:= (6 - 6/6) \times 666 - 6 - 6 \\
&:= 7 + (77 \times (7 \times 7 - 7) + 77) \\
&:= (8 - 88)/8 + 8 \times (8 \times 8 \times 8 - 88 - 8) \\
&:= 99 + (999/9 \times (99/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3319 &:= ((1 + 1 + 1) \times (1111 - 1)) - 11 \\
&:= (22/2)^2 + ((2 \times (2 \times (22 - 2))^2) - 2) \\
&:= 3333 - (33/3 + 3) \\
&:= 4 + ((4^4 - 4/4) \times ((4/4 + 4 + 4) + 4)) \\
&:= (5/5 + 5) \times 555 - 55/5 \\
&:= (6 - 6/6) \times 666 - 66/6 \\
&:= 7 \times 7 \times (77 - 7) - 777/7 \\
&:= 8 \times (8 \times 8 \times 8 - 88 - 8) - (8/8 + 8) \\
&:= 99 + ((99/9 + 9) \times (9 \times (9 + 9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3320 &:= (11 - 1) \times ((1 + 1 + 1) \times 111 - 1) \\
&:= 2 \times ((22 - 2) \times ((2/2 + 2)^{2+2} + 2)) \\
&:= ((3 - 33)/3) + (3333 - 3) \\
&:= 4^4 + ((4^4 \times ((4 + 4) + 4)) - (4 + 4)) \\
&:= 5 \times 5 + (55 \times (55 + 5) - 5) \\
&:= (6 - 6/6) \times (666 - ((6 + 6)/6)) \\
&:= ((77 - 7)/7) \times (7 \times 7 \times 7 - (77/7)) \\
&:= 8 \times (8 \times 8 \times 8 - 88 - 8) - 8 \\
&:= 9 \times 9 + (((9 + 9) \times (99 + 9 \times 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3321 &:= ((1 + 1 + 1) \times 1111) - 1 - 11 \\
&:= (2/2 + 2) \times ((2222/2) - (2 + 2)) \\
&:= 3333 - (3 \times 3 + 3) \\
&:= (4 - 4/4) \times (4444/4 - 4) \\
&:= 5 + ((55 \times (55 + 5) + (55/5)) + 5) \\
&:= 6666 \times 6/(6 + 6) - 6 - 6 \\
&:= (7 \times (7 \times (77 - 7) - (7 + 7))) - 77/7 \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 - 88 - 8) - 8) \\
&:= 9 \times ((9 + 9) \times (99/9 + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3322 &:= ((1 + 1 + 1) \times 1111) - 11 \\
&:= 22 \times ((2^{2 \times (2+2)} + 2)/2) + 22) \\
&:= 3333 - 33/3 \\
&:= 44/4 \times (((4 + 4)/4 + 44) + 4^4) \\
&:= 5 + (((5/5 + 5) \times ((5 + 5)/5)^5) + 5^5) \\
&:= (6 - 6/6) \times 666 - ((6 + 6)/6 + 6) \\
&:= 77 + (77 \times (7 \times 7 - 7) + (77/7)) \\
&:= (8 + 8)/8 + (8 \times (8 \times 8 \times 8 - 88 - 8) - 8) \\
&:= 9/9 + (((9 + 9) \times (99 + 9 \times 9)) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3323 &:= 1 + (((1 + 1 + 1) \times 1111) - 11) \\
&:= 2 + ((2 \times (2 \times (22 - 2))^2) + (22/2)^2) \\
&:= ((3 - 33)/3) + 3333 \\
&:= 4^4 + ((4^4 \times ((4 + 4) + 4)) - (4/4 + 4)) \\
&:= 5 + ((5/5 + 5) \times (555 - (5 + 5)/5)) \\
&:= (6 - 6/6) \times 666 - 6/6 - 6 \\
&:= 77 + (77 \times (7 \times 7 - 7) + (77 + 7)/7) \\
&:= ((8/8 - 8 \times 8) \times (88/8 - 8 \times 8)) - 8 - 8 \\
&:= 9 \times 9 + (((9 + 9) \times (99 + 9 \times 9)) + ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3324 &:= (1 + 1 + 1) \times (1111 - (1 + 1 + 1)) \\
&:= (2 + 2 + 2) \times (((22 + 2)^2) - 22) \\
&:= 3333 - 3 \times 3 \\
&:= 4^4 + ((4^4 \times ((4 + 4) + 4)) - 4) \\
&:= (5/5 + 5) \times (555 - 5/5) \\
&:= (6 - 6/6) \times 666 - 6 \\
&:= (7 - 7/7) \times (((7 \times 77 + 7/7) + 7) + 7) \\
&:= ((8 \times 8 \times (88 + 8 + 8)) - 8)/((8 + 8)/8) \\
&:= (9999/((9 + 9 + 9)/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3325 &:= ((1 + 1 + 1) \times (1 + 1111)) - 11 \\
&:= ((2/2 + 2) \times ((2222/2) - 2)) - 2 \\
&:= 3 + (3333 - 33/3) \\
&:= 4 + ((4 - 4/4) \times (4444/4 - 4)) \\
&:= 5 \times 5 + 55 \times (55 + 5) \\
&:= (6 - 6/6) \times (666 - 6/6) \\
&:= (7 \times 7 - (7 + 7)/7) \times (77 - (7 + 7)/7) \\
&:= (88/8 + 8) \times (888/8 + 8 \times 8) \\
&:= 9/9 + ((9999/((9 + 9 + 9)/9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3326 &:= ((1 + 1 + 1) \times (1111 - (1 + 1))) - 1 \\
&:= ((22/2 + 2) \times 2^{2 \times (2+2)}) - 2 \\
&:= 3333 - (3/3 + 3 + 3) \\
&:= 4^4 + ((4^4 \times ((4 + 4) + 4)) - (4 + 4)/4) \\
&:= 5 \times 5 + (55 \times (55 + 5) + 5/5) \\
&:= 6 + ((6 - 6/6) \times (666 - ((6 + 6)/6))) \\
&:= 7 + (7 \times 7 \times (77 - 7) - 777/7) \\
&:= 8 \times (8 \times 8 \times 8 - 88 - 8) - (8 + 8)/8 \\
&:= ((9 \times (9 \times 9 \times 9 + 9) + 9/9) + 9)/((9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3327 &:= (1 + 1 + 1) \times (1111 - (1 + 1)) \\
&:= (2/2 + 2) \times ((2222/2) - 2) \\
&:= 3333 - 3 - 3 \\
&:= 4^4 + ((4^4 \times ((4 + 4) + 4)) - 4/4) \\
&:= 5 \times 5 + (55 \times (55 + 5) + ((5 + 5)/5)) \\
&:= 6666 \times 6/(6 + 6) - 6 \\
&:= 7 + (((7 - 777)/7) + 7 \times 7 \times (77 - 7)) \\
&:= 8 \times (8 \times 8 \times 8 - 88 - 8) - 8/8 \\
&:= (9999 - (9 + 9))/((9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3328 &:= 1 + ((1 + 1 + 1) \times (1111 - (1 + 1))) \\
&:= (22/2 + 2) \times 2^{2 \times (2+2)} \\
&:= 3/3 + (3333 - (3 + 3)) \\
&:= 4 \times (4 \times (4 \times (44 + 4 + 4))) \\
&:= 5^5 + (((5^5 - 5)/(5 + 5 + 5)) - 5) \\
&:= (6 - 6/6) \times 666 - (6 + 6)/6 \\
&:= (7 - 7/7 + 7) \times (((7 + 7)/7)^{7+7/7}) \\
&:= 8 \times (8 \times 8 \times 8 - 88 - 8) \\
&:= 99 + (((9 + 9) \times (99 + 9 \times 9)) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3329 &:= ((1 + 1 + 1) \times (1111 - 1)) - 1 \\
&:= 2 + ((2/2 + 2) \times ((2222/2) - 2)) \\
&:= 3333 - (3/3 + 3) \\
&:= 4/4 + ((4^4 \times ((4 + 4) + 4)) + 4^4) \\
&:= (5/5 + 5) \times 555 - 5/5 \\
&:= (6 - 6/6) \times 666 - 6/6 \\
&:= 7 + ((77 \times (7 \times 7 - 7) + (77/7)) + 77) \\
&:= 8/8 + 8 \times (8 \times 8 \times 8 - 88 - 8) \\
&:= ((9/9 + 9) \times ((9 + 9) \times (9 + 9) + 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3330 &:= (1 + 1 + 1) \times (1111 - 1) \\
&:= 222 \times ((22/2 + 2) + 2) \\
&:= 3333 - 3 \\
&:= (4 - 4/4) \times (4444 - 4)/4 \\
&:= (5/5 + 5) \times 555 \\
&:= (6 - 6/6) \times 666 \\
&:= (7 - 7/7) \times (((7777 - 7)/(7 + 7))) \\
&:= (8 + 8)/8 + 8 \times (8 \times 8 \times 8 - 88 - 8) \\
&:= (9/9 + 9) \times ((9 + 9) \times (9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3331 &:= 1 + ((1 + 1 + 1) \times (1111 - 1)) \\
&:= ((2/2 + 2) \times (2222/2)) - 2 \\
&:= 3/3 + (3333 - 3) \\
&:= ((44/4 + 4)^{4-4/4}) - 44 \\
&:= 5/5 + (5/5 + 5) \times 555 \\
&:= 6/6 + (6 - 6/6) \times 666 \\
&:= (7 \times (7 \times (77 - 7) - (7 + 7))) - 7/7 \\
&:= ((8/8 - 8 \times 8) \times (88/8 - 8 \times 8)) - 8 \\
&:= 9/9 + ((9/9 + 9) \times ((9 + 9) \times (9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3332 &:= ((1 + 1 + 1) \times 1111) - 1 \\
&:= 2 + (222 \times ((22/2 + 2) + 2)) \\
&:= 3333 - 3/3 \\
&:= 4 + ((4^4 \times ((4 + 4) + 4)) + 4^4) \\
&:= (5 + 5)/5 + (5/5 + 5) \times 555 \\
&:= (6 + 6)/6 + (6 - 6/6) \times 666 \\
&:= 7 \times (7 \times (77 - 7) - (7 + 7)) \\
&:= (8 - 8/8) \times (88 \times 88/(8 + 8) - 8) \\
&:= (9999/((9 + 9 + 9)/9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3333 &:= (1 + 1 + 1) \times 1111 \\
&:= (2/2 + 2) \times (2222/2) \\
&:= 3333 \\
&:= (4 - 4/4) \times 4444/4 \\
&:= 5^5 + (((5^5 - 5)/(5 + 5 + 5)) \\
&:= 6666 \times 6/(6 + 6) \\
&:= 7/7 + (7 \times (7 \times (77 - 7) - (7 + 7))) \\
&:= (88/8 - 8) \times 8888/8 \\
&:= 9999/((9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3334 &:= 1 + ((1 + 1 + 1) \times 1111) \\
&:= (((2/2 + 2) \times 2222) + 2)/2 \\
&:= 3/3 + 3333 \\
&:= 4 + ((4 - 4/4) \times (4444 - 4)/4) \\
&:= 5 + ((5/5 + 5) \times 555 - 5/5) \\
&:= 6/6 + 6666 \times 6/(6 + 6) \\
&:= (7 + 7)/7 + (7 \times (7 \times (77 - 7) - (7 + 7))) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 88 - 8) - ((8 + 8)/8)) \\
&:= 9/9 + (9999/((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3335 &:= 1 + (1 + ((1 + 1 + 1) \times 1111)) \\
&:= 2 + ((2/2 + 2) \times (2222/2)) \\
&:= 3 + (3333 - 3/3) \\
&:= 4 + (((44/4 + 4)^{4-4/4}) - 44) \\
&:= 5 + (5/5 + 5) \times 555 \\
&:= (6 - 6/6) \times (666 + 6/6) \\
&:= 7 + ((7 - 7/7 + 7) \times (((7 + 7)/7)^{7+7/7})) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 88 - 8) - 8/8) \\
&:= (9 + 9)/9 + (9999/((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3336 &:= (1 + 1 + 1) \times (1 + 1111) \\
&:= (2/2 + 2) \times ((2222 + 2)/2) \\
&:= 3 + 3333 \\
&:= 4 + (((4^4 \times ((4 + 4) + 4)) + 4^4) + 4) \\
&:= (5/5 + 5) \times (555 + 5/5) \\
&:= 6 + (6 - 6/6) \times 666 \\
&:= (7 - 7/7) \times (((7777 + 7)/(7 + 7))) \\
&:= 8 + 8 \times (8 \times 8 \times 8 - 88 - 8) \\
&:= (9999 + 9)/((9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3337 &:= 1 + ((1 + 1 + 1) \times (1 + 1111)) \\
&:= 2 + (((2/2 + 2) \times (2222/2)) + 2) \\
&:= 3 + (3333 + 3/3) \\
&:= 4 + ((4 - 4/4) \times 4444/4) \\
&:= 5^5 + ((55 + 5^5)/(5 + 5 + 5)) \\
&:= 6 + ((6 - 6/6) \times 666 + 6/6) \\
&:= (7 \times 7 - (7 + 7)/7) \times (77 - (7 + 7)/7) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 88 - 8) + 8/8) \\
&:= 9/9 + ((9999 + 9)/((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3338 &:= 1 + (1 + ((1 + 1 + 1) \times (1 + 1111))) \\
&:= 2 + ((2/2 + 2) \times ((2222 + 2)/2)) \\
&:= 3 + ((3333 - 3/3) + 3) \\
&:= 4 + (((4 - 4/4) \times (4444 - 4)/4) + 4) \\
&:= 5 + (((5^5 - 5)/(5 + 5 + 5)) + 5^5) \\
&:= 6 + ((6 - 6/6) \times 666 + ((6 + 6)/6)) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - (7 + 7))) - 7/7) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 88 - 8) + ((8 + 8)/8)) \\
&:= 99 + (((9 + 9) \times (99 + 9 \times 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3339 &:= (1 + 1 + 1) \times (1 + (1 + 1111)) \\
&:= (2/2 + 2) \times ((2222/2) + 2) \\
&:= 3 + (3333 + 3) \\
&:= ((4^4 - 4)/4) \times (4^4 - 44)/4 \\
&:= 5 + (((5/5 + 5) \times 555 - 5/5) + 5) \\
&:= 6 + 6666 \times 6/(6 + 6) \\
&:= 7 + (7 \times (7 \times (77 - 7) - (7 + 7))) \\
&:= (8/8 - 8 \times 8) \times (88/8 - 8 \times 8) \\
&:= 99 + ((9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3340 &:= 1 + ((1 + 1 + 1) \times (1 + (1 + 1111))) \\
&:= (2 - 22) \times (2 - ((22/2 + 2)^2)) \\
&:= 3 + ((3333 + 3/3) + 3) \\
&:= (44 \times (4 \times (4 + 4) + 44)) - 4 \\
&:= 5 + ((5/5 + 5) \times 555 + 5) \\
&:= (6 - 6/6) \times (666 + (6 + 6)/6) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - (7 + 7))) + 7/7) \\
&:= 8 + ((8 - 8/8) \times (88 \times 88/(8 + 8) - 8)) \\
&:= 9/9 + (((9 + 9) \times (99 + 9 \times 9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3341 &:= 11 + ((1 + 1 + 1) \times (1111 - 1)) \\
&:= 2 + ((2/2 + 2) \times ((2222/2) + 2)) \\
&:= 3 \times 3 + (3333 - 3/3) \\
&:= (4/4 + 4^4) \times ((4/4 + 4 + 4) + 4) \\
&:= 5 + ((5/5 + 5) \times (555 + 5/5)) \\
&:= 6 + ((6 - 6/6) \times (666 + 6/6)) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - (7 + 7))) + ((7 + 7)/7)) \\
&:= 8 + ((88/8 - 8) \times 8888/8) \\
&:= 9 + ((9999/(9 + 9 + 9)/9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3342 &:= (1 + 1 + 1) \times (1 + (1 + (1 + 1111))) \\
&:= (((2 + 2 + 2)^2 + 22)^2) - 22 \\
&:= 3 \times 3 + 3333 \\
&:= (4 - 4/4) \times ((4444 - 4)/4 + 4) \\
&:= (5/5 + 5) \times (555 + (5 + 5)/5) \\
&:= 6 + ((6 - 6/6) \times 666 + 6) \\
&:= (7 - 7/7) \times ((7 \times 77 + (77/7)) + 7) \\
&:= ((8 + 8)/8) \times (88 \times (88/8 + 8) - 8/8) \\
&:= 9 + (9999/(9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3343 &:= 11 + (((1 + 1 + 1) \times 1111) - 1) \\
&:= (2 \times (2 \times 22)^2) - ((22 + 2/2)^2) \\
&:= 3 \times 3 + (3333 + 3/3) \\
&:= (44 \times (4 \times (4 + 4) + 44)) - 4/4 \\
&:= 5^5 + (((5 - (5 + 5)/5)^5) - 5 \times 5) \\
&:= 6 + (((6 - 6/6) \times 666 + 6/6) + 6) \\
&:= 77/7 + (7 \times (7 \times (77 - 7) - (7 + 7))) \\
&:= ((88/8 + 8) \times (88 + 88)) - 8/8 \\
&:= 9 + ((9999/(9 + 9 + 9)/9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3344 &:= 11 + ((1 + 1 + 1) \times 1111) \\
&:= 2 \times (2 \times (22 \times ((2 + 2 + 2)^2 + 2))) \\
&:= 33/3 + 3333 \\
&:= 44 \times (4 \times (4 + 4) + 44) \\
&:= 5^5 + (5 \times 55 - (55 + 5/5)) \\
&:= 66/6 + 6666 \times 6/(6 + 6) \\
&:= (7/7 - 77) \times (7 - ((7 + 7)/7 + 7 \times 7)) \\
&:= (88/8 + 8) \times (88 + 88) \\
&:= 99/9 + (9999/((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3345 &:= 1 + (11 + ((1 + 1 + 1) \times 1111)) \\
&:= (2/2 + 2) \times (((2222/2) + 2) + 2) \\
&:= 3 + (3333 + 3 \times 3) \\
&:= 4/4 + (44 \times (4 \times (4 + 4) + 44)) \\
&:= 5^5 + (55 \times (5 - 5/5)) \\
&:= 6 + (6666 \times 6/(6 + 6) + 6) \\
&:= 777/7 + 77 \times (7 \times 7 - 7) \\
&:= 8/8 + ((88/8 + 8) \times (88 + 88)) \\
&:= 9 + ((9999 + 9)/(9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3346 &:= 1 + (1 + (11 + ((1 + 1 + 1) \times 1111))) \\
&:= 2 + ((2 + 2 + 2)^{2+2} + 2^{22/2}) \\
&:= 3 + ((3333 + 3 \times 3) + 3/3) \\
&:= (4 + 4)/4 + (44 \times (4 \times (4 + 4) + 44)) \\
&:= 5^5 + (((55 \times (5 - 5/5)) + 5/5) \\
&:= 6 + ((6 - 6/6) \times (666 + (6 + 6)/6)) \\
&:= 7 \times 7 \times (77 - 7) - 77 - 7 \\
&:= (8 + 8)/8 + ((88/8 + 8) \times (88 + 88)) \\
&:= 9 + (((9999 + 9)/(9 + 9 + 9)/9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3347 &:= 11 + ((1 + 1 + 1) \times (1 + 1111)) \\
&:= 2 + ((2/2 + 2) \times (((2222/2) + 2) + 2)) \\
&:= 3 + (3333 + 33/3) \\
&:= 4 + ((44 \times (4 \times (4 + 4) + 44)) - 4/4) \\
&:= 5^5 + ((5 + 5)/5 \times 555/5) \\
&:= 6 + (((6 - 6/6) \times (666 + 6/6)) + 6) \\
&:= 7/7 + (7 \times 7 \times (77 - 7) - (77 + 7)) \\
&:= 8 + ((8/8 - 8 \times 8) \times (88/8 - 8 \times 8)) \\
&:= (((9 + 9)/9)^9) + (9 \times ((9 + 9) \times (9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3348 &:= 1 + (11 + ((1 + 1 + 1) \times (1 + 1111))) \\
&:= 2 \times ((2 \times (22 \times ((2 + 2 + 2)^2 + 2))) + 2) \\
&:= 3 \times (33 \times 33 + 3^3) \\
&:= 4 + (44 \times (4 \times (4 + 4) + 44)) \\
&:= 5 + (((5 - (5 + 5)/5)^5) - 5 \times 5) + 5^5 \\
&:= 6 \times (666 - 6 \times (6 + 6 + 6)) \\
&:= (7 + 7)/7 + (7 \times 7 \times (77 - 7) - (77 + 7)) \\
&:= (8 \times 8 - ((8 + 8)/8)) \times ((8 - 88)/8 + 8 \times 8) \\
&:= 9 + (((9 + 9) \times (99 + 9 \times 9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3349 &:= 1 + (1 + (11 + ((1 + 1 + 1) \times (1 + 1111)))) \\
&:= 22 + ((2/2 + 2) \times ((2222/2) - 2)) \\
&:= 3^3 + (3333 - 33/3) \\
&:= 4 + ((44 \times (4 \times (4 + 4) + 44)) + 4/4) \\
&:= 5^5 + ((5 - 5/5) \times (55 + 5/5)) \\
&:= 6/6 + (6 \times (666 - 6 \times (6 + 6 + 6))) \\
&:= ((77 - 7) \times (7 \times 7 - 7/7)) - 77/7 \\
&:= 8 + (((88/8 - 8) \times 8888/8) + 8) \\
&:= ((9 - 9/9) + 9) \times ((99 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3350 &:= 11 + ((1 + 1 + 1) \times (1 + (1 + 1111))) \\
&:= 22 + ((22/2 + 2) \times 2^{2 \times (2+2)}) \\
&:= 3 + ((3333 + 33/3) + 3) \\
&:= 4 + ((44 \times (4 \times (4 + 4) + 44)) + (4 + 4)/4) \\
&:= 5^5 + 5 \times (55 - 5 - 5) \\
&:= (6 - 6/6) \times ((666 - ((6 + 6)/6)) + 6) \\
&:= ((77 - 7)/7) \times (7 \times 7 \times 7 - (7/7 + 7)) \\
&:= 8 + (((8 + 8)/8) \times (88 \times (88/8 + 8) - 8/8)) \\
&:= (9/9 + 9) \times ((9 + 9) \times (9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3351 &:= 1 + (11 + ((1 + 1 + 1) \times (1 + (1 + 1111)))) \\
&:= (((2 \times 2 \times (22 - 2)) + 2)^2) - 22/2 \\
&:= (3 \times (3 + 3)) + 3333 \\
&:= 4 + (((44 \times (4 \times (4 + 4) + 44)) - 4/4) + 4) \\
&:= 5^5 + (5 \times (55 - 5 - 5) + 5/5) \\
&:= (6666 + 6 \times 6)/((6 + 6)/6) \\
&:= 7 \times 7 \times (77 - 7) - ((7 + 7)/7 + 77) \\
&:= 8 + (((88/8 + 8) \times (88 + 88)) - 8/8) \\
&:= 9 + ((9999/(9 + 9 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3352 &:= 11 + (11 + ((1 + 1 + 1) \times (1111 - 1))) \\
&:= 2 \times (2 \times ((22 \times ((2 + 2 + 2)^2 + 2)) + 2)) \\
&:= 3/3 + (3333 + (3 \times (3 + 3))) \\
&:= 4 + ((44 \times (4 \times (4 + 4) + 44)) + 4) \\
&:= 5 + (((5 + 5)/5 \times 555/5) + 5^5) \\
&:= (((6 + 6)/6)^6 - 6)^{(6+6)/6} - 6 - 6 \\
&:= 7 \times 7 \times (77 - 7) - 7/7 - 77 \\
&:= 8 + ((88/8 + 8) \times (88 + 88)) \\
&:= ((999 + 9)/9) + ((9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

- ▶ 3353 := $11 + ((1 + 1 + 1) \times (1 + (1 + (1 + 1111))))$
:= $((2 + 2 + 2)^2 + 22)^2 - 22/2$
:= $3 \times 3 + (3333 + 33/3)$
:= $4 + (((44 \times (4 \times (4 + 4) + 44)) + 4/4) + 4)$
:= $55 + (55 \times (55 + 5) - ((5 + 5)/5))$
:= $(6 - 6/6) \times (666 + 6) - 6/6 - 6$
:= $7 \times 7 \times (77 - 7) - 77$
:= $8 + (((88/8 + 8) \times (88 + 88)) + 8/8)$
:= $((9/9 + 9 \times 9) \times ((9 \times 9 \times 9 + 9)/(9 + 9))) - 9$
- ▶ 3354 := $11 + (11 + (((1 + 1 + 1) \times 1111) - 1))$
:= $(22/2 + 2) \times (2^{2 \times (2+2)} + 2)$
:= $3 + (3333 + (3 \times (3 + 3)))$
:= $((4/4 + 4 + 4) + 4) \times ((4 + 4)/4 + 4^4)$
:= $55 + (55 \times (55 + 5) - 5/5)$
:= $(6 - 6/6) \times (666 + 6) - 6$
:= $7/7 + (7 \times 7 \times (77 - 7) - 77)$
:= $(88/8 - 8) \times ((8888 - 8)/8 + 8)$
:= $9 + (((9999 + 9)/(9 + 9 + 9)/9) + 9)$
- ▶ 3355 := $11 + (11 + ((1 + 1 + 1) \times 1111))$
:= $22 + ((2/2 + 2) \times (2222/2))$
:= $33 + (3333 - 33/3)$
:= $44/4 + (44 \times (4 \times (4 + 4) + 44))$
:= $55 + 55 \times (55 + 5)$
:= $(6 - 6/6) \times ((666 - 6/6) + 6)$
:= $(7 + 7)/7 + (7 \times 7 \times (77 - 7) - 77)$
:= $8 + (((8/8 - 8 \times 8) \times (88/8 - 8 \times 8)) + 8)$
:= $99/9 \times (((99 \times (9 + 9 + 9) - 9)/9) + 9)$
- ▶ 3356 := $1 + (11 + (11 + ((1 + 1 + 1) \times 1111)))$
:= $2 + ((22/2 + 2) \times (2^{2 \times (2+2)} + 2))$
:= $3^3 + (3333 - (3/3 + 3))$
:= $4444 - (4 \times (4 \times 4 + 4^4))$
:= $55 + (55 \times (55 + 5) + 5/5)$
:= $6 + ((6 - 6/6) \times ((666 - ((6 + 6)/6) + 6))$
:= $7 + (((77 - 7) \times (7 \times 7 - 7/7)) - (77/7))$
:= $(((((8 + 8)/8) - 8) + 8 \times 8)^{(8+8)/8}) - 8$
:= $9 + ((9 \times ((9 + 9) \times (9 + 9) - 9)) + ((9 + 9)/9)^9)$
- ▶ 3357 := $(1 + 1 + 1) \times (((11 - 1) \times (1 + 111)) - 1)$
:= $2 + (((2/2 + 2) \times (2222/2)) + 22)$
:= $3^3 + (3333 - 3)$
:= $(4 - 4/4) \times (4444/4 + 4 + 4)$
:= $55 + (55 \times (55 + 5) + ((5 + 5)/5))$
:= $6 + ((6666 + 6 \times 6)/(6 + 6)/6)$
:= $(((((7 + 7)/7 + 7 \times 7) + 7)^{(7+7)/7}) - 7)$
:= $(88/8 - 8) \times (8888/8 + 8)$
:= $9 \times (((9 \times 9 \times 9 \times 9 - 9)/(9 + 9)) + 9)$
- ▶ 3358 := $1 + ((1 + 1 + 1) \times (((11 - 1) \times (1 + 111)) - 1))$
:= $2 \times (((2 \times (22 - 2) + 2/2)^2) - 2)$
:= $3^3 + ((3333 - 3) + 3/3)$
:= $4 + (((4/4 + 4 + 4) + 4) \times ((4 + 4)/4 + 4^4))$
:= $5^5 + (((5 - (5 + 5)/5)^5) - (5 + 5))$
:= $(((((6 + 6)/6)^6 - 6)^{(6+6)/6}) - 6)$
:= $((77 - 7) \times (7 \times 7 - 7/7)) - (7 + 7)/7$
:= $8/8 + ((88/8 - 8) \times (8888/8 + 8))$
:= $9 + (((9 - 9/9) + 9) \times ((99 - 9/9) + 99))$
- ▶ 3359 := $((11 - 1) \times ((1 + 1 + 1) \times (1 + 111))) - 1$
:= $(((((2 \times 2 \times (22 - 2)) + 2)^2) - 2)/2) - 2$
:= $3^3 + (3333 - 3/3)$
:= $((44/4 + 4)^{4-4/4}) - 4 \times 4$
:= $((5/5 + 5) \times (555 + 5)) - 5/5$
:= $(6 - 6/6) \times (666 + 6) - 6/6$
:= $((77 - 7) \times (7 \times 7 - 7/7)) - 7/7$
:= $((8 - 8/8 + 8)^{88/8-8}) - 8 - 8$
:= $9 + ((9/9 + 9) \times ((9 + 9) \times (9 + 9) + (99/9)))$
- ▶ 3360 := $(11 - 1) \times ((1 + 1 + 1) \times (1 + 111))$
:= $2 \times (2 \times ((2 - 22) \times (2 - (2 \times 22))))$
:= $3^3 + 3333$
:= $4 \times (4 \times (4^4 - 44) - (4 + 4))$
:= $(5/5 + 5) \times (555 + 5)$
:= $(6 - 6/6) \times (666 + 6)$
:= $(77 - 7) \times (7 \times 7 - 7/7)$
:= $8 \times (88 \times 88/(8 + 8) - 8 \times 8)$
:= $((9 + 9 + 9)/9) \times (9999/9 + 9)$
- ▶ 3361 := $1 + ((11 - 1) \times ((1 + 1 + 1) \times (1 + 111)))$
:= $(((((2 \times 2 \times (22 - 2)) + 2)^2) - 2)/2)$
:= $3^3 + (3333 + 3/3)$
:= $4/4 + (4 \times (4 \times (4^4 - 44) - (4 + 4)))$
:= $5^5 + (555/5 + 5 \times 5 \times 5)$
:= $6/6 + (6 - 6/6) \times (666 + 6)$
:= $7/7 + (((77 - 7) \times (7 \times 7 - 7/7))$
:= $8/8 + (8 \times (88 \times 88/(8 + 8) - 8 \times 8))$
:= $9 \times 9 + ((9 \times 9 \times 9 \times 9 - 9/9)/(9 + 9)/9)$
- ▶ 3362 := $((1 + (11 - 1 - 1)^{1+1})^{1+1})/(1 + 1)$
:= $2 \times ((2 \times (22 - 2) + 2/2)^2)$
:= $3 + ((3333 - 3/3) + 3^3)$
:= $(4 + 4)/4 + (4 \times (4 \times (4^4 - 44) - (4 + 4)))$
:= $5^5 + ((555 + 5)/5 + 5 \times 5 \times 5)$
:= $(6 + 6)/6 + (6 - 6/6) \times (666 + 6)$
:= $((7 + 7)/7)^7 + 77 \times (7 \times 7 - 7)$
:= $8 + ((88/8 - 8) \times ((8888 - 8)/8 + 8))$
:= $(9/9 + 9 \times 9) \times ((9 \times 9 \times 9 + 9)/(9 + 9))$
- ▶ 3363 := $(1 + 1 + 1) \times (11 + (1111 - 1))$
:= $((2 + 2 + 2)^2 + 22)^2 - 2/2$
:= $3 + (3333 + 3^3)$
:= $4 + (((44/4 + 4)^{4-4/4}) - 4 \times 4)$
:= $5^5 + (((5 - (5 + 5)/5)^5) - 5)$
:= $6 \times 6 + (6666 \times 6/(6 + 6) - 6)$
:= $(7 + 7) \times (77 + 7) + ((7 + 7 + 7)/7)^7$
:= $(88/8 + 8) \times ((88 + 88) + 8/8)$
:= $99 + ((99 \times 99 - 9)/(9 + 9 + 9)/9)$
- ▶ 3364 := $(1 + 1 + (1 + 111)/(1 + 1))^{1+1}$
:= $((2 + 2 + 2)^2 + 22)^2$
:= $(3 \times 3 + 3 + 3)^3 - 33/3$
:= $4 + (4 \times (4 \times (4^4 - 44) - (4 + 4)))$
:= $5^5 + (5 \times 5 \times (5 + 5) - (55/5))$
:= $((6 + 6)/6)^6 - 6)^{(6+6)/6}$
:= $((7 + 7)/7 + 7 \times 7) + 7)^{(7+7)/7}$
:= $((8 + 8)/8 - 8) + 8 \times 8)^{(8+8)/8}$
:= $((9 \times 99 - 9)/(9 + 9) + 9)^{(9+9)/9}$
- ▶ 3365 := $((1 + 1 + 1) \times (11 + 1111)) - 1$
:= $2/2 + (((2 + 2 + 2)^2 + 22)^2)$
:= $33 + (3333 - 3/3)$
:= $4^4 + (((4/4 + 4)^{4+4/4}) - 4 \times 4)$
:= $5 + ((5/5 + 5) \times (555 + 5))$
:= $(6 - 6/6) \times (666 + 6/6 + 6)$
:= $7 + (((77 - 7) \times (7 \times 7 - 7/7)) - ((7 + 7)/7))$
:= $8 + ((88/8 - 8) \times (8888/8 + 8))$
:= $((9 - 9/9) + 9) \times (99 + 99) - 9/9$
- ▶ 3366 := $(1 + 1 + 1) \times (11 + 1111)$
:= $2 + (((2 + 2 + 2)^2 + 22)^2)$
:= $33 + 3333$
:= $(4 - 4/4) \times (4444 + 44)/4$
:= $(5/5 + 5) \times ((555 + 5/5) + 5)$
:= $6 + (6 - 6/6) \times (666 + 6)$
:= $7 + (((77 - 7) \times (7 \times 7 - 7/7)) - 7/7)$
:= $(88/8 - 8) \times ((8888 + 88)/8)$
:= $((9 - 9/9) + 9) \times (99 + 99)$
- ▶ 3367 := $1 + ((1 + 1 + 1) \times (11 + 1111))$
:= $2 + (((2 + 2 + 2)^2 + 22)^2) + 2/2$
:= $3/3 + (3333 + 33)$
:= $((44/4 + 4)^{4-4/4}) - 4 - 4$
:= $5^5 + (((5 - (5 + 5)/5)^5) - 5/5)$
:= $6 + ((6 - 6/6) \times (666 + 6) + 6/6)$
:= $7 + ((77 - 7) \times (7 \times 7 - 7/7))$
:= $((8 - 8/8 + 8)^{88/8-8}) - 8$
:= $9/9 + (((9 - 9/9) + 9) \times (99 + 99))$

$$\begin{aligned}
\blacktriangleright 3368 &:= 1 + (1 + ((1 + 1 + 1) \times (11 + 1111))) \\
&:= 2 + (((2 + 2 + 2)^2 + 22^2) + 2) \\
&:= 3 + ((3333 - 3/3) + 33) \\
&:= (4 \times (4 \times (4^4 - 44) - 4)) - 4 - 4 \\
&:= 5^5 + ((5 - (5 + 5)/5)^5) \\
&:= 6 + ((6 - 6/6) \times (666 + 6) + ((6 + 6)/6)) \\
&:= ((7/7 + 7 + 7)^{(7+7+7)/7}) - 7 \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - 8 - 8 - 8 \\
&:= (9 + 9)/9 + (((9 - 9/9) + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3369 &:= (1 + 1 + 1) \times (1 + (11 + 1111)) \\
&:= 2 + (((2 + 2 + 2)^2 + 22^2) + 2/2) + 2 \\
&:= 3 + (3333 + 33) \\
&:= 4 + (((4/4 + 4)^{4+4/4}) - 4 \times 4) + 4^4 \\
&:= 5^5 + (((5 - (5 + 5)/5)^5) + 5/5) \\
&:= 6 \times 6 + 6666 \times 6/(6 + 6) \\
&:= 7 + (77 \times (7 \times 7 - 7) + ((7 + 7)/7)^7) \\
&:= 8/8 + ((8 \times (8 \times 8 \times 8 - 88)) - (8 + 8 + 8)) \\
&:= 9 + (((9 + 9 + 9)/9) \times (9999/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3370 &:= 1 + ((1 + 1 + 1) \times (1 + (11 + 1111))) \\
&:= 2 + (((2 + 2 + 2)^2 + 22^2) + 2) + 2 \\
&:= 3 + ((3333 + 33) + 3/3) \\
&:= (44 - 4)/4 \times ((4 - 4/4)^4 + 4^4) \\
&:= 5^5 + (5 \times 5 \times (5 + 5) - 5) \\
&:= 6 + (((6 + 6)/6)^6 - 6)^{(6+6)/6} \\
&:= (7 \times (7 \times (77 - 7) - 7)) - 77/7 \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - (88 + 88)/8 \\
&:= (9/9 + 9) \times (((9 + 9)/9)^{9-9/9}) + 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3371 &:= 1 + (1 + ((1 + 1 + 1) \times (1 + (11 + 1111)))) \\
&:= (((22/2 + 2) + 2)^{2/2+2}) - 2 - 2 \\
&:= (3 \times 3 + 3 + 3)^3 - (3/3 + 3) \\
&:= ((44/4 + 4)^{4-4/4}) - 4 \\
&:= 5^5 + ((5 \times 5 \times (5 + 5) - 5) + 5/5) \\
&:= 6 + ((6 - 6/6) \times (666 + 6/6 + 6)) \\
&:= 7 + (((7 + 7)/7 + 7 \times 7) + 7)^{(7+7)/7} \\
&:= 8 + ((88/8 + 8) \times ((88 + 88) + 8/8)) \\
&:= 9 + ((9/9 + 9 \times 9) \times ((9 \times 9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3372 &:= (1 + 1 + 1) \times (1 + (1 + (11 + 1111))) \\
&:= 2 \times ((2 \times (2 \times ((22 - 2)^2 + 22))) - 2) \\
&:= (3 \times 3 + 3 + 3)^3 - 3 \\
&:= (4 \times (4 \times (4^4 - 44) - 4)) - 4 \\
&:= 5 + (((5 - (5 + 5)/5)^5) - 5/5) + 5^5 \\
&:= 6 + ((6 - 6/6) \times (666 + 6) + 6) \\
&:= (7 \times (7 \times (77 - 7) - 7)) - ((7 + 7)/7 + 7) \\
&:= 8 + (((8 + 8)/8) - 8) + 8 \times 8^{(8+8)/8} \\
&:= (((9 + 9)/9 + 9) \times (9 \times (9 + 9) - 9/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3373 &:= ((1 + 1 + 1 + 1 + 11)^{1+1+1}) - 1 - 1 \\
&:= (((22/2 + 2) + 2)^{2/2+2}) - 2 \\
&:= 3/3 + ((3 \times 3 + 3 + 3)^3 - 3) \\
&:= 4/4 + ((4 \times (4 \times (4^4 - 44) - 4)) - 4) \\
&:= 5 + (((5 - (5 + 5)/5)^5) + 5^5) \\
&:= ((6 + 6) \times (6 \times 6 \times 6 + 66)) - 66/6 \\
&:= (7 \times (7 \times (77 - 7) - 7)) - (7/7 + 7) \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - (88/8 + 8) \\
&:= 9 + (((9 \times 99 - 9)/(9 + 9)) + 9)^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3374 &:= ((1 + 1 + 1 + 1 + 11)^{1+1+1}) - 1 \\
&:= 2222 + (2 \times ((22 + 2)^2)) \\
&:= (3 \times 3 + 3 + 3)^3 - 3/3 \\
&:= ((44/4 + 4)^{4-4/4}) - 4/4 \\
&:= 5^5 + (5 \times 5 \times (5 + 5) - 5/5) \\
&:= (6 - 66)/6 + ((6 + 6) \times (6 \times 6 \times 6 + 66)) \\
&:= (7 \times (7 \times (77 - 7) - 7)) - 7 \\
&:= ((8 - 8/8 + 8)^{88/8-8}) - 8/8 \\
&:= 9 + (((9 - 9/9) + 9) \times (99 + 99)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3375 &:= (1 + 1 + 1 + 1 + 11)^{1+1+1} \\
&:= ((22/2 + 2) + 2)^{2/2+2} \\
&:= (3 \times 3 + 3 + 3)^3 \\
&:= (44/4 + 4)^{4-4/4} \\
&:= 5^5 + 5 \times 5 \times (5 + 5) \\
&:= 6 + (6666 \times 6/(6 + 6) + 6 \times 6) \\
&:= (7/7 + 7 + 7)^{(7+7+7)/7} \\
&:= (8 - 8/8 + 8)^{88/8-8} \\
&:= 9 + (((9 - 9/9) + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3376 &:= 1 + ((1 + 1 + 1 + 1 + 11)^{1+1+1}) \\
&:= 2 \times (2 \times (2 \times ((22 - 2)^2 + 22))) \\
&:= 3/3 + (3 \times 3 + 3 + 3)^3 \\
&:= 4 \times (4 \times (4^4 - 44) - 4) \\
&:= 5^5 + (5 \times 5 \times (5 + 5) + 5/5) \\
&:= 6 + (((6 + 6)/6)^6 - 6)^{(6+6)/6} + 6 \\
&:= 7/7 + ((7/7 + 7 + 7)^{(7+7+7)/7}) \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - 8 - 8 \\
&:= (9 - 9/9) \times (((9 + 9)/9)^9) - 99 + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3377 &:= 1 + (1 + ((1 + 1 + 1 + 1 + 11)^{1+1+1})) \\
&:= 2 + (((22/2 + 2) + 2)^{2/2+2}) \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 - 3/3) \\
&:= 4/4 + (4 \times (4 \times (4^4 - 44) - 4)) \\
&:= 5^5 + (5 \times 5 \times (5 + 5) + ((5 + 5)/5)) \\
&:= 6 \times (6 \times 6 + 6) + ((6 - 6/6)^{6-6/6}) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - 7)) - (77/7)) \\
&:= 8/8 + ((8 \times (8 \times 8 \times 8 - 88)) - (8 + 8)) \\
&:= 99/9 + (((9 - 9/9) + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3378 &:= (1 + 1)^{11} + (11^{1+1+1} - 1) \\
&:= ((22 - 2) \times ((22/2 + 2)^2)) - 2 \\
&:= 3 + (3 \times 3 + 3 + 3)^3 \\
&:= 4 + (((44/4 + 4)^{4-4/4}) - 4/4) \\
&:= 5 + (((5 - (5 + 5)/5)^5) + 5^5) + 5 \\
&:= ((6 + 6) \times (6 \times 6 \times 6 + 66)) - 6 \\
&:= (7 \times (7 \times (77 - 7) - 7)) - (7 + 7 + 7)/7 \\
&:= (8 + 8)/8 + ((8 \times (8 \times 8 \times 8 - 88)) - (8 + 8)) \\
&:= 9 + (((9 + 9 + 9)/9) \times (9999/9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3379 &:= (1 + 1)^{11} + 11^{1+1+1} \\
&:= 2 + (((22/2 + 2) + 2)^{2/2+2}) + 2 \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + 3/3) \\
&:= 4 + ((44/4 + 4)^{4-4/4}) \\
&:= 5 + ((5 \times 5 \times (5 + 5) - 5/5) + 5^5) \\
&:= 6/6 + (((6 + 6) \times (6 \times 6 \times 6 + 66)) - 6) \\
&:= (7 \times (7 \times (77 - 7) - 7)) - (7 + 7)/7 \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - (88 + 8 + 8)/8 \\
&:= 99 + ((9 \times 9 \times 9 - 9/9)/((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3380 &:= 1 + ((1 + 1)^{11} + 11^{1+1+1}) \\
&:= (22 - 2) \times ((22/2 + 2)^2) \\
&:= 3 + (((3 \times 3 + 3 + 3)^3 - 3/3) + 3) \\
&:= 4 + (4 \times (4 \times (4^4 - 44) - 4)) \\
&:= 5 + (5 \times 5 \times (5 + 5) + 5^5) \\
&:= (6 - 6/6) \times ((66 - 6)/6 + 666) \\
&:= (7 \times (7 \times (77 - 7) - 7)) - 7/7 \\
&:= (8/8 + 8 \times 8) \times ((88/((8 + 8)/8)) + 8) \\
&:= 99 + ((9 \times 9 \times 9 + 9/9)/((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3381 &:= 1 + (1 + ((1 + 1)^{11} + 11^{1+1+1})) \\
&:= 2/2 + ((22 - 2) \times ((22/2 + 2)^2)) \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + 3) \\
&:= 4^4 + ((4/4 + 4)^{4+4/4}) \\
&:= 5^5 + (((5 - 5/5)^{5-5/5}) \\
&:= 6 + ((6666 \times 6/(6 + 6) + 6 \times 6) + 6) \\
&:= 7 \times (7 \times (77 - 7) - 7) \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - 88/8 \\
&:= ((99 + 9)/9 + 9) \times (9 \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3382 &:= 1 + (1 + (1 + ((1 + 1)^{11} + 11^{1+1+1}))) \\
&:= 2 + ((22 - 2) \times ((22/2 + 2)^2)) \\
&:= 3 + (((3 \times 3 + 3 + 3)^3 + 3/3) + 3) \\
&:= 4/4 + (((4/4 + 4)^{4+4/4}) + 4^4) \\
&:= 5^5 + (((5^5 - 5)/(5 + 5) - 55) \\
&:= ((6 + 6) \times (6 \times 6 \times 6 + 66)) - (6 + 6)/6 \\
&:= 7/7 + (7 \times (7 \times (77 - 7) - 7)) \\
&:= (8 - 88)/8 + (8 \times (8 \times 8 \times 8 - 88)) \\
&:= (9/9 + 9 + 9) \times ((99 - ((9 + 9)/9)) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3383 &:= 1 + (1 + (1 + (1 + ((1 + 1)^{11} + 11^{1+1+1})))) \\
&:= 2 + (((22 - 2) \times ((22/2 + 2)^2)) + 2/2) \\
&:= 3 \times 3 + ((3 \times 3 + 3 + 3)^3 - 3/3) \\
&:= 4 + (((44/4 + 4)^{4-4/4}) + 4) \\
&:= 5^5 + ((5^5 + 5)/(5 + 5) - 55) \\
&:= ((6 + 6) \times (6 \times 6 \times 6 + 66)) - 6/6 \\
&:= (7 + 7)/7 + (7 \times (7 \times (77 - 7) - 7)) \\
&:= 8 + ((8 - 8/8 + 8)^{88/8-8}) \\
&:= ((9 - 9/9) + 9) \times ((9/9 + 99) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3384 &:= 11 + (((1 + 1 + 1 + 1 + 11)^{1+1+1}) - (1 + 1)) \\
&:= (2 \times ((2 \times 22)^2 - 2)) - 22^2 \\
&:= 3 \times 3 + (3 \times 3 + 3 + 3)^3 \\
&:= (4 \times 4 \times (4^4 - 44)) - 4 - 4 \\
&:= 5^5 + (5 \times 55 - (55/5 + 5)) \\
&:= (6 + 6) \times (6 \times 6 \times 6 + 66) \\
&:= (7/7 + 7) \times ((77 \times 77 - 7)/(7 + 7)) \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - 8 \\
&:= (9 + 9) \times (((9 \times 9 - 9/9) + 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3385 &:= 11 + (((1 + 1 + 1 + 1 + 11)^{1+1+1}) - 1) \\
&:= (((22^2 \times (2^{2+2} - 2)) - 2)/2) - 2 \\
&:= 3 \times 3 + ((3 \times 3 + 3 + 3)^3 + 3/3) \\
&:= 4 + (((4/4 + 4)^{4+4/4}) + 4^4) \\
&:= 5 + ((5 \times 5 \times (5 + 5) + 5^5) + 5) \\
&:= 6/6 + ((6 + 6) \times (6 \times 6 \times 6 + 66)) \\
&:= 77/7 + ((7 \times (7 \times (77 - 7) - 7)) - 7) \\
&:= 8/8 + ((8 \times (8 \times 8 \times 8 - 88)) - 8) \\
&:= 9 + ((9 - 9/9) \times (((9 + 9)/9)^9) - 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3386 &:= 11 + ((1 + 1 + 1 + 1 + 11)^{1+1+1}) \\
&:= 22 + (((2 + 2 + 2)^2 + 22)^2) \\
&:= 33/3 + (3 \times 3 + 3 + 3)^3 \\
&:= 44/4 + (((44/4 + 4)^{4-4/4}) \\
&:= 5 + (((5 - 5/5)^{5-5/5}) + 5^5) \\
&:= (6 + 6)/6 + ((6 + 6) \times (6 \times 6 \times 6 + 66)) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - 7)) - ((7 + 7)/7)) \\
&:= (8 + 8)/8 + ((8 \times (8 \times 8 \times 8 - 88)) - 8) \\
&:= 9 + (((9 - 9/9) + 9) \times (99 + 99)) + (99/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3387 &:= 1 + (11 + ((1 + 1 + 1 + 1 + 11)^{1+1+1})) \\
&:= ((22^2 \times (2^{2+2} - 2)) - 2)/2 \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + 3 \times 3) \\
&:= (4 \times 4 \times (4^4 - 44)) - (4/4 + 4) \\
&:= 5 + (((5^5 - 5)/(5 + 5) - 55) + 5^5) \\
&:= 6 \times 6 + ((6666 + 6 \times 6)/((6 + 6)/6)) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - 7)) - 7/7) \\
&:= 88/8 + ((8 \times (8 \times 8 \times 8 - 88)) - (8 + 8)) \\
&:= ((9 + 9 + 9)/9) \times ((9999/9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3388 &:= (1 + 1) \times (11 \times (11 \times (1 + (1 + 1 + 11)))) \\
&:= 22^2 \times ((2/2 + 2 + 2) + 2) \\
&:= (33/3 + 3) \times ((3^{3+3} - 3)/3) \\
&:= 44 \times ((4 - 4/4)^4 - 4) \\
&:= 5^5 + (5 \times 55 - ((55 + 5)/5)) \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 + 66)) - ((6 + 6)/6)) \\
&:= 7 + (7 \times (7 \times (77 - 7) - 7)) \\
&:= (8 - 8/8) \times 88 \times 88/(8 + 8) \\
&:= 99/9 \times ((99/9) \times ((9/9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3389 &:= 1 + ((1 + 1) \times (11 \times (11 \times (1 + (1 + 1 + 11)))))) \\
&:= ((22^2 \times (2^{2+2} - 2)) + 2)/2 \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + 33/3) \\
&:= 4/4 + (44 \times ((4 - 4/4)^4 - 4)) \\
&:= 5^5 + (5 \times 55 - (55/5)) \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 + 66)) - 6/6) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - 7)) + 7/7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 88)) - (88/8)) \\
&:= 9 + (((9 \times 9 \times 9 + 9/9)/(9 + 9)/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3390 &:= 11 + ((1 + 1)^{11} + 11^{1+1+1}) \\
&:= 2 + (22^2 \times ((2/2 + 2 + 2) + 2)) \\
&:= 3 + (((3 \times 3 + 3 + 3)^3 + 3 \times 3) + 3) \\
&:= (4 \times 4 \times (4^4 - 44)) - (4 + 4)/4 \\
&:= 5^5 + (5 \times 55 - (5 + 5)) \\
&:= 6 + ((6 + 6) \times (6 \times 6 \times 6 + 66)) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - 7)) + ((7 + 7)/7)) \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - (8 + 8)/8 \\
&:= 9 + (((99 + 9)/9 + 9) \times (9 \times (9 + 9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3391 &:= 1 + (11 + ((1 + 1)^{11} + 11^{1+1+1})) \\
&:= 2 + (((22^2 \times (2^{2+2} - 2)) + 2)/2) \\
&:= 3 + ((33/3 + 3) \times ((3^{3+3} - 3)/3)) \\
&:= (4 \times 4 \times (4^4 - 44)) - 4/4 \\
&:= 5^5 + ((5 \times 55 - (5 + 5)) + 5/5) \\
&:= 6 + (((6 + 6) \times (6 \times 6 \times 6 + 66)) + 6/6) \\
&:= ((77 - 7)/7) + (7 \times (7 \times (77 - 7) - 7)) \\
&:= (8 \times (8 \times 8 \times 8 - 88)) - 8/8 \\
&:= ((9 + 9) \times ((99 + 9 \times 9) + 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3392 &:= (1 + 1)^{11} + ((1 + 11) \times (1 + 111)) \\
&:= (2 \times ((2 \times 22)^2 + 2)) - 22^2 \\
&:= 3 \times (3 + 3)^3 + ((33/3 + 3)^3) \\
&:= 4 \times 4 \times (4^4 - 44) \\
&:= ((5 + 5)/5)^5 \times (555/5 - 5) \\
&:= ((6 + 6)/6)^6 \times ((66/6 + 6 \times 6) + 6) \\
&:= 77/7 + (7 \times (7 \times (77 - 7) - 7)) \\
&:= 8 \times (8 \times 8 \times 8 - 88) \\
&:= ((9 + 9) \times ((99 + 9 \times 9) + 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3393 &:= 1 + ((1 + 1)^{11} + ((1 + 11) \times (1 + 111))) \\
&:= 2 + (((22^2 \times (2^{2+2} - 2)) + 2)/2) + 2) \\
&:= 3 \times ((3^3 \times (3 \times 3 + 33)) - 3) \\
&:= 4/4 + (4 \times 4 \times (4^4 - 44)) \\
&:= 5 \times 5 + (((5 - (5 + 5)/5)^5) + 5^5) \\
&:= 66 + (6666 \times 6/(6 + 6) - 6) \\
&:= (77 + 7)/7 + (7 \times (7 \times (77 - 7) - 7)) \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 - 88)) \\
&:= ((9 + 9) \times ((99 + 9 \times 9) + 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3394 &:= 1 + (1 + ((1 + 1)^{11} + ((1 + 11) \times (1 + 111)))) \\
&:= 2 + ((2 \times ((2 \times 22)^2 + 2)) - 22^2) \\
&:= ((3/3 + 3)^3) + (3333 - 3) \\
&:= (4 + 4)/4 + (4 \times 4 \times (4^4 - 44)) \\
&:= 5^5 + (5 \times 55 - (5/5 + 5)) \\
&:= ((6 + 6)/6)^6 + (6 - 6/6) \times 666 \\
&:= 7 + (((7 \times (7 \times (77 - 7) - 7)) - 7/7) + 7) \\
&:= (8 + 8)/8 + (8 \times (8 \times 8 \times 8 - 88)) \\
&:= 9/9 + (((9 + 9) \times ((99 + 9 \times 9) + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3395 &:= (1 + ((1 + 1) \times (1 + 1 + 1))) \times (1 + ((11 + 11)^{1+1})) \\
&:= ((2/2 + 2 + 2) + 2) \times (22^2 + 2/2) \\
&:= 3 + (((33/3 + 3)^3) + 3 \times (3 + 3)^3) \\
&:= 4 + ((4 \times 4 \times (4^4 - 44)) - 4/4) \\
&:= 5^5 + (5 \times 55 - 5) \\
&:= 66 + ((6 - 6/6) \times 666 - 6/6) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - 7)) + 7) \\
&:= 88/8 + ((8 \times (8 \times 8 \times 8 - 88)) - 8) \\
&:= (9 + 9)/9 + (((9 + 9) \times ((99 + 9 \times 9) + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3396 &:= (1 + 1 + 1) \times (11 + (11 + (1111 - 1))) \\
&:= (2 \times (((2 \times 22)^2 + 2) + 2)) - 22^2 \\
&:= 3 + ((3333 + 33) + 3^3) \\
&:= 4 + (4 \times 4 \times (4^4 - 44)) \\
&:= 5^5 + ((5 \times 55 - 5) + 5/5) \\
&:= 66 + (6 - 6/6) \times 666 \\
&:= 7 + (((7 \times (7 \times (77 - 7) - 7)) + 7/7) + 7) \\
&:= 8 + ((8 - 8/8) \times 88 \times 88/(8 + 8)) \\
&:= 9 + (((9 + 9 + 9)/9) \times ((9999/9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3397 &:= 1 + ((1 + 1 + 1) \times (11 + (11 + (1111 - 1)))) \\
&:= 22 + (((22/2 + 2) + 2)^{2/2+2}) \\
&:= ((3/3 + 3)^3) + 3333 \\
&:= 4 + ((4 \times 4 \times (4^4 - 44)) + 4/4) \\
&:= 5^5 + (((5 + 5)/5 - 5) + 5 \times 55) \\
&:= 66 + ((6 - 6/6) \times 666 + 6/6) \\
&:= ((7/7 - 7) + 7 \times 7) \times ((7 + 7)/7 + 77) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 - 88)) - (88/8)) + 8) \\
&:= 9 + ((99/9) \times ((99/9) \times ((9/9 + 9 + 9) + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3398 &:= ((1+1+1) \times (11+(11+1111))) - 1 \\
&:= 2 + ((2 \times ((2 \times 22)^2 + 2) + 2) - 22^2) \\
&:= 3^3 + ((3 \times 3 + 3 + 3)^3 - (3/3 + 3)) \\
&:= 4 + ((4 \times 4 \times (4^4 - 44)) + (4 + 4)/4) \\
&:= 5^5 + (5 \times 55 - ((5+5)/5)) \\
&:= 6 + (((6+6)/6)^6 \times ((66/6 + 6 \times 6) + 6)) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - 7)) + ((77 - 7)/7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 88)) - ((8+8)/8)) \\
&:= ((9+9)/9) \times ((9+9) \times 99 - (((9+9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3399 &:= (1+1+1) \times (11+(11+1111)) \\
&:= (2/2+2) \times ((2222/2)+22) \\
&:= 3^3 + ((3 \times 3 + 3 + 3)^3 - 3) \\
&:= 4 + (((4 \times 4 \times (4^4 - 44)) - 4/4) + 4) \\
&:= 5^5 + (5 \times 55 - 5/5) \\
&:= 66 + 6666 \times 6/(6+6) \\
&:= 7 + ((7 \times (7 \times (77 - 7) - 7)) + (77/7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 88)) - 8/8) \\
&:= 99/9 \times ((999/9+99) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3400 &:= (11-1)^{1+1} \times (1+11 \times (1+1+1)) \\
&:= 2 \times ((2 \times 22 - 2)^2 - 2^{2+2+2}) \\
&:= 3 + (((3/3+3)^3) + 3333) \\
&:= 4 + ((4 \times 4 \times (4^4 - 44)) + 4) \\
&:= 5^5 + 5 \times 55 \\
&:= 6 \times 6 + (((6+6)/6)^6 - 6)^{(6+6)/6} \\
&:= (7/7 + 7 \times 7) \times (77 - ((7+7)/7 + 7)) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 88)) \\
&:= (99/9+9) \times ((9 \times (9+9) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3401 &:= 1 + ((11-1)^{1+1} \times (1+11 \times (1+1+1))) \\
&:= (((2^{2+2} - 2) \times (22^2 + 2)) - 2)/2 \\
&:= 3^3 + ((3 \times 3 + 3 + 3)^3 - 3/3) \\
&:= 4 + (((4 \times 4 \times (4^4 - 44)) + 4/4) + 4) \\
&:= 5^5 + (5 \times 55 + 5/5) \\
&:= 66 + ((6 - 6/6) \times (666 + 6/6)) \\
&:= (7 \times (7 \times (77 - 7) + 7)) - 7/7 - 77 \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 88)) + 8/8) \\
&:= ((9+9) \times ((99+9 \times 9) + 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3402 &:= (1+1+1) \times (1+(11+(11+1111))) \\
&:= ((2 \times 22) - 2) \times (2/2+2)^{2+2} \\
&:= 3 \times (3^3 \times (3 \times 3 + 33)) \\
&:= (4 - 4/4)^4 \times (44 - (4+4)/4) \\
&:= 5^5 + (5 \times 55 + ((5+5)/5)) \\
&:= 6 + (((6 - 6/6) \times 666 + 66)) \\
&:= (7 \times (7 \times (77 - 7) + 7)) - 77 \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 88)) + ((8+8)/8)) \\
&:= (9+9) \times ((99+9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3403 &:= 1 + ((1+1+1) \times (1+(11+(11+1111)))) \\
&:= (((2^{2+2} - 2) \times (22^2 + 2)) + 2)/2 \\
&:= 3^3 + ((3 \times 3 + 3 + 3)^3 + 3/3) \\
&:= 44/4 + (4 \times 4 \times (4^4 - 44)) \\
&:= 5 + ((5 \times 55 - ((5+5)/5)) + 5^5) \\
&:= 6 + (((6 - 6/6) \times 666 + 66) + 6/6) \\
&:= 7/7 + ((7 \times (7 \times (77 - 7) + 7)) - 77) \\
&:= 88/8 + (8 \times (8 \times 8 \times 8 - 88)) \\
&:= 9/9 + ((9+9) \times ((99+9 \times 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3404 &:= (1+1)^{11} + ((1+11) \times (1+1+111)) \\
&:= 2 + (((2 \times 22) - 2) \times (2/2+2)^{2+2}) \\
&:= 3333 + (((3+3)^3 - 3)/3) \\
&:= 4444 - 4 \times (4^4 + 4) \\
&:= 5 + ((5 \times 55 - 5/5) + 5^5) \\
&:= (((6 \times 6 - 6) + 6/6) \times ((666 - 6)/6)) - 6 \\
&:= 7 + (((7/7 - 7) + 7 \times 7) \times ((7+7)/7 + 77)) \\
&:= ((88+8)/8) + (8 \times (8 \times 8 \times 8 - 88)) \\
&:= (9+9)/9 + ((9+9) \times ((99+9 \times 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3405 &:= (1+1+1) \times (111+(1+1)^{11-1}) \\
&:= 2 + (((2^{2+2} - 2) \times (22^2 + 2)) + 2)/2 \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + 3^3) \\
&:= 4/4 + (4444 - 4 \times (4^4 + 4)) \\
&:= 5 + (5 \times 55 + 5^5) \\
&:= 6 + (6666 \times 6/(6+6) + 66) \\
&:= 7 \times 7 \times (77 - 7) - (77/7 + 7 + 7) \\
&:= (88 + 8 + 8)/8 + (8 \times (8 \times 8 \times 8 - 88)) \\
&:= 9 \times 9 + ((9999/(9+9+9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3406 &:= 1 + ((1+1+1) \times (111+(1+1)^{11-1})) \\
&:= 2 \times (((2 \times (22 - 2) + 2/2)^2) + 22) \\
&:= 3333 + (((3+3)^3 + 3)/3) \\
&:= 4 + ((4 - 4/4)^4 \times (44 - (4+4)/4)) \\
&:= 5 + (5 \times 55 + 5^5 + 5/5) \\
&:= 6 + (((6+6)/6)^6 - 6)^{(6+6)/6} + 6 \times 6 \\
&:= 7 + (((7 \times (7 \times (77 - 7) - 7)) + (77/7)) + 7) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 - 88)) - ((8+8)/8)) + 8) \\
&:= ((9+9)/9) \times ((9 \times ((99+9 \times 9) + 9)) + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3407 &:= 1 + (1 + ((1+1+1) \times (111+(1+1)^{11-1}))) \\
&:= (2 \times (2 \times 22 - 2)^2) - (22/2)^2 \\
&:= 33 + ((3 \times 3 + 3 + 3)^3 - 3/3) \\
&:= (4 \times 4 \times (4^4 - 4)) - (4/4 + 4)^4 \\
&:= 5 + ((5 \times 55 + ((5+5)/5)) + 5^5) \\
&:= 6 + (((6 - 6/6) \times (666 + 6/6)) + 66) \\
&:= 7 + ((7/7 + 7 \times 7) \times (77 - ((7+7)/7 + 7))) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 - 88)) - 8/8) + 8) \\
&:= 9 \times 9 \times (9+9) + (((9+9)/9)^{99/9} - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3408 &:= (1+1) \times ((1+11) \times ((1+11)^{1+1} - (1+1))) \\
&:= (22+2) \times (((2 \times (2+2+2))^2) - 2) \\
&:= 33 + (3 \times 3 + 3 + 3)^3 \\
&:= 4 \times (4 \times (4^4 - 44) + 4) \\
&:= 5 + (((5 \times 55 - ((5+5)/5)) + 5^5) + 5) \\
&:= (((6+6)/6 + 6) \times ((6 \times (66+6)) - 6)) \\
&:= (7 \times 7 - 7/7) \times ((7/7 - 7) + 77) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 88)) + 8) \\
&:= 9 + ((99/9) \times ((999/9+99) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3409 &:= ((1+1) \times (11 \times (11+(1+11)^{1+1}))) - 1 \\
&:= 2 + ((2 \times (2 \times 22 - 2)^2) - (22/2)^2) \\
&:= 3/3 + ((3 \times 3 + 3 + 3)^3 + 33) \\
&:= 4/4 + (4 \times (4 \times (4^4 - 44) + 4)) \\
&:= 5 + (((5 \times 55 - 5/5) + 5^5) + 5) \\
&:= 6/6 + (((6+6)/6 + 6) \times ((6 \times (66+6)) - 6)) \\
&:= 7 \times 7 \times (77 - 7) - (7+7+7) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 - 88)) + 8/8) + 8) \\
&:= 9 + ((99/9+9) \times ((9 \times (9+9) - 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3410 &:= (1+1) \times (11 \times (11+(1+11)^{1+1})) \\
&:= 22 \times (222/2 + 2 \times 22) \\
&:= 3 + (((3 \times 3 + 3 + 3)^3 - 3/3) + 33) \\
&:= (4+4)/4 + (4 \times (4 \times (4^4 - 44) + 4)) \\
&:= 5 + ((5 \times 55 + 5^5) + 5) \\
&:= (((6 \times 6 - 6) + 6/6) \times ((666 - 6)/6)) \\
&:= 7/7 + (7 \times 7 \times (77 - 7) - (7+7+7)) \\
&:= (8 \times 8 - (8/8+8)) \times (8 \times 8 - ((8+8)/8)) \\
&:= 9 + (((9+9) \times ((99+9 \times 9) + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3411 &:= 1 + ((1+1) \times (11 \times (11+(1+11)^{1+1}))) \\
&:= 22 + (((22^2 \times (2^{2+2} - 2)) + 2)/2) \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + 33) \\
&:= 4 + ((4 \times 4 \times (4^4 - 4)) - (4/4 + 4)^4) \\
&:= 5^5 + (5 \times 55 + (55/5)) \\
&:= 6 + ((6666 \times 6/(6+6) + 66) + 6) \\
&:= 7 \times 7 \times (77 - 7) - ((77+7)/7 + 7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 88)) + (88/8)) \\
&:= 9 + ((9+9) \times ((99+9 \times 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3412 &:= (1+1) \times (1 + (11 \times (11+(1+11)^{1+1}))) \\
&:= 2 + (22 \times (222/2 + 2 \times 22)) \\
&:= 3 + (((3 \times 3 + 3 + 3)^3 + 33) + 3/3) \\
&:= 4 + (4 \times (4 \times (4^4 - 44) + 4)) \\
&:= 5^5 + (((55+5)/5) + 5 \times 55) \\
&:= (((6+6)/6)^{6+6} - (((666+6) + 6) + 6)) \\
&:= 7 \times 7 \times (77 - 7) - (77/7 + 7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 88)) + ((88+8)/8)) \\
&:= 9 + (((9+9) \times ((99+9 \times 9) + 9)) + 9/9)
\end{aligned}$$

- 3413 := $((11-1) \times (1+1)^{11-1} - 1) / (1+1+1)$
:= $(2222/2) + (((2 \times (22+2))^2) - 2)$
:= $3 \times 3^3 + (3333 - 3/3)$
:= $4 + ((4 \times (4 \times (4^4 - 44) + 4)) + 4/4)$
:= $5^5 + ((5^5 + 5) / (5+5) - 5 \times 5)$
:= $(6^{6-6/6}) - ((66 \times 66 + 6/6) + 6)$
:= $((7-77)/7) + (7 \times 7 \times (77-7) - 7)$
:= $8 + ((8 \times (8 \times 8 \times 8 - 88)) + (88 + 8 + 8) / 8)$
:= $99/9 + ((9+9) \times ((99+9 \times 9) + 9))$
- 3414 := $1 + (((11-1) \times (1+1)^{11-1} - 1) / (1+1+1))$
:= $((2^{2+2} - 2) \times (22^2/2 + 2)) - 2$
:= $3 \times 3^3 + 3333$
:= $4 + ((4 \times (4 \times (4^4 - 44) + 4)) + (4+4)/4)$
:= $5^5 + (5 \times (55+5) - (55/5))$
:= $(6^{6-6/6}) - (66 \times 66 + 6)$
:= $7 \times 7 \times (77-7) - (((7+7)/7 + 7) + 7)$
:= $(8 - (8+8)/8) \times ((8 \times (8 \times 8 + 8) - 8) + 8/8)$
:= $9 \times 9 + (9999 / ((9+9+9)/9))$
- 3415 := $1111 + (((1+1) \times ((1+1) \times (1+11)))^{1+1})$
:= $(2222/2) + ((2 \times (22+2))^2)$
:= $3/3 + (3333 + 3 \times 3^3)$
:= $44 + (((44/4 + 4)^{4-4/4}) - 4)$
:= $5 + (((5 \times 55 + 5^5) + 5) + 5)$
:= $(6 - 6/6) \times ((666 + (66/6)) + 6)$
:= $7 \times 7 \times (77-7) - (7/7 + 7 + 7)$
:= $8 + (((8 \times (8 \times 8 \times 8 - 88)) - 8/8) + 8 + 8)$
:= $9/9 + (9999 / ((9+9+9)/9)) + 9 \times 9$
- 3416 := $(1+1) \times (1+1+1+11) \times (1+11^{1+1})$
:= $(2^{2+2} - 2) \times (22^2/2 + 2)$
:= $(33/3 + 3) \times ((3^{3+3} + 3)/3)$
:= $4444 - (4 \times 4^4 + 4)$
:= $5 + ((5 \times 55 + (55/5)) + 5^5)$
:= $6 + (((6 \times 6 - 6) + 6/6) \times ((666 - 6)/6))$
:= $7 \times 7 \times (77-7) - (7+7)$
:= $8 + (((8 \times (8 \times 8 \times 8 - 88)) + 8) + 8)$
:= $((9/9 + 9 + 9) + 9) \times (999 + 99) / 9$
- 3417 := $(1+1)^{11} + ((111/(1+1+1))^{1+1})$
:= $(2 \times (2 \times 22 - 2)^2) - 222/2$
:= $3 + (3333 + 3 \times 3^3)$
:= $4/4 + (4444 - (4 \times 4^4 + 4))$
:= $5 + (((55+5)/5) + 5 \times 55) + 5^5$
:= $66 + ((6666 + 6 \times 6) / ((6+6)/6))$
:= $7/7 + (7 \times 7 \times (77-7) - (7+7))$
:= $8 + (((8 \times (8 \times 8 \times 8 - 88)) + 8/8) + 8) + 8$
:= $9 \times 9 + (9999 + 9) / ((9+9+9)/9)$
- 3418 := $11 \times 111 + ((1+1+11)^{1+1+1})$
:= $2 + ((2^{2+2} - 2) \times (22^2/2 + 2))$
:= $3 + ((3333 + 3 \times 3^3) + 3/3)$
:= $4444 - ((4+4)/4 + 4 \times 4^4)$
:= $5 + (((5^5 + 5) / (5+5) - 5 \times 5) + 5^5)$
:= $((6+6)/6)^{6+6} - ((666+6) + 6)$
:= $7 \times 7 \times (77-7) - (77+7)/7$
:= $8 + ((8 \times 8 - (8/8+8)) \times (8 \times 8 - ((8+8)/8)))$
:= $((9/9 + 9 + 9) \times (99 + 9 \times 9)) - (9+9)/9$
- 3419 := $(1+1+11) \times (((1+1) \times (11 \times (1+11)))) - 1$
:= $2 + ((2 \times (2 \times 22 - 2)^2) - 222/2)$
:= $3 + ((33/3 + 3) \times ((3^{3+3} + 3)/3))$
:= $44 + ((44/4 + 4)^{4-4/4})$
:= $5^5 + (5 \times (55+5) - (5/5+5))$
:= $(6^{6-6/6}) - (66 \times 66 + 6/6)$
:= $7 \times 7 \times (77-7) - 77/7$
:= $8 + (((8 \times (8 \times 8 \times 8 - 88)) + (88/8)) + 8)$
:= $((9+9)/9)^9 + (9 \times (9+9) \times (9+9) - 9)$
- 3420 := $(11-1) \times ((1+1+1) \times (1+1+1+111))$
:= $(22-2) \times (((22/2+2)^2) + 2)$
:= $(3^3 + 3) \times (333/3 + 3)$
:= $4444 - 4 \times 4^4$
:= $5^5 + (5 \times (55+5) - 5)$
:= $6 \times ((6+6) \times (6 \times 6 + 6) + 66)$
:= $((7-77)/7) + 7 \times 7 \times (77-7)$
:= $(8/8+8) \times ((8 \times (88+8) - 8) / ((8+8)/8))$
:= $(9/9+9+9) \times (99+9 \times 9)$
- 3421 := $11 \times (1 + ((1+1) \times (11 + (1+11)^{1+1})))$
:= $2/2 + ((22-2) \times (((22/2+2)^2) + 2))$
:= $3/3 + ((3^3 + 3) \times (333/3 + 3))$
:= $4/4 + (4444 - 4 \times 4^4)$
:= $5^5 + ((5 \times (55+5) - 5) + 5/5)$
:= $6/6 + (6 \times ((6+6) \times (6 \times 6 + 6) + 66))$
:= $7 \times 7 \times (77-7) - ((7+7)/7 + 7)$
:= $88 + ((88/8 - 8) \times 8888/8)$
:= $9/9 + ((9/9 + 9 + 9) \times (99 + 9 \times 9))$
- 3422 := $1 + (11 \times (1 + ((1+1) \times (11 + (1+11)^{1+1}))))$
:= $222 + (2 \times (2 \times (22-2))^2)$
:= $(3 \times (3^3 + 3)) + (3333 - 3/3)$
:= $(4+4)/4 + (4444 - 4 \times 4^4)$
:= $5^5 + ((5 \times (55+5) - 5) + ((5+5)/5))$
:= $((6+6)/6)^6 - 6 \times (66 - 6/6 - 6)$
:= $7 \times 7 \times (77-7) - (7/7 + 7)$
:= $8 + ((8 \times (8 \times 8 \times 8 - 88)) + (88+88)/8)$
:= $9 + (((9+9) \times ((99+9 \times 9) + 9)) + (99/9))$
- 3423 := $((1+1) \times (((1+11)^{1+1+1} - 11)) - 11)$
:= $2/2 + ((2 \times (2 \times (22-2))^2) + 222)$
:= $(3 \times (3^3 + 3)) + 3333$
:= $((4+4) \times (444 - 4 \times 4)) - 4/4$
:= $55 + (((5 - (5+5)/5)^5) + 5^5)$
:= $((6+6)/6)^{6+6} - (666 + 6/6 + 6)$
:= $7 \times 7 \times (77-7) - 7$
:= $(8 - 8/8) \times ((8 \times 8 \times 8 - (8+8+8)) + 8/8)$
:= $((99+9)/9 + 9) \times (9 \times (9+9) + 9/9)$
- 3424 := $1 + (((1+1) \times (((1+11)^{1+1+1} - 11)) - 11))$
:= $2 \times ((2 \times 22)^2 - (222 + 2))$
:= $3^3 + (((3/3 + 3)^3) + 3333)$
:= $(4+4) \times (444 - 4 \times 4)$
:= $5^5 + (5 \times (55+5) - 5/5)$
:= $((6+6)/6)^{6+6} - (666 + 6)$
:= $7/7 + (7 \times 7 \times (77-7) - 7)$
:= $8 \times (888 / ((8+8)/8) - (8+8))$
:= $9/9 + (((99+9)/9 + 9) \times (9 \times (9+9) + 9/9))$
- 3425 := $((1+1) \times (1 + (((1+11)^{1+1+1} - 11)))) - 11$
:= $2/2 + (2 \times ((2 \times 22)^2 - (222 + 2)))$
:= $3 \times 3^3 + (3333 + 33/3)$
:= $4 \times 4^4 + (((4-4)/4 + 4)^4)$
:= $5^5 + 5 \times (55+5)$
:= $6 + ((6^{6-6/6}) - (66 \times 66 + 6/6))$
:= $(7+7)/7 + (7 \times 7 \times (77-7) - 7)$
:= $8/8 + (8 \times (888 / ((8+8)/8) - (8+8)))$
:= $9 \times (9 \times (9+9) - 9) + (((9+9)/9)^{99/9})$
- 3426 := $1 + (((1+1) \times (1 + (((1+11)^{1+1+1} - 11)))) - 11)$
:= $(2 \times ((2 \times 22)^2 - 222)) - 2$
:= $3 + ((3 \times (3^3 + 3)) + 3333)$
:= $4/4 + (((4-4)/4 + 4)^4) + 4 \times 4^4$
:= $5^5 + (5 \times (55+5) + 5/5)$
:= $6 + (6 \times ((6+6) \times (6 \times 6 + 6) + 66))$
:= $7 + (7 \times 7 \times (77-7) - (77/7))$
:= $8 + (((8 \times 8 - (8/8+8)) \times (8 \times 8 - ((8+8)/8))) + 8)$
:= $9 + (((9999+9) / ((9+9+9)/9)) + 9 \times 9)$
- 3427 := $11 + ((1+1) \times (1+1+1+11) \times (1+11^{1+1}))$
:= $(2 \times ((2 \times 22)^2 - 222)) - 2/2$
:= $((3 \times 3 + 3/3) \times ((3/3 + 3 + 3)^3)) - 3$
:= $((4+4)^4) - ((4/4+4)^4 + 44)$
:= $5^5 + (5 \times (55+5) + ((5+5)/5))$
:= $6 + ((6 \times ((6+6) \times (6 \times 6 + 6) + 66)) + 6/6)$
:= $7 \times 7 \times (77-7) - (7+7+7)/7$
:= $88 + ((8/8 - 8 \times 8) \times (88/8 - 8 \times 8))$
:= $((9+9)/9)^9 + (9 \times (9+9) \times (9+9) - 9/9)$

$$\begin{aligned}
\blacktriangleright 3428 &:= (1+1) \times ((1+1)^{11} - (1+(1+1+1) \times 111)) \\
&:= 2 \times ((2 \times 22)^2 - 222) \\
&:= 3 \times 33 + (3333 - (3/3 + 3)) \\
&:= 4 + ((4+4) \times (444 - 4 \times 4)) \\
&:= 5^5 + ((5^5 + 5)/(5+5) - (5+5)) \\
&:= 6 + (((6+6)/6)^6 - 6) \times (66 - 6/6 - 6) \\
&:= 7 \times 7 \times (77 - 7) - (7+7)/7 \\
&:= (88 \times 88 - 888)/(8+8)/8 \\
&:= (((9+9)/9)^9) + 9 \times (9+9) \times (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3429 &:= (((1+1) \times (11 - 1) - 1)^{1+1+1} - 1)/(1+1) \\
&:= 2/2 + (2 \times ((2 \times 22)^2 - 222)) \\
&:= 3 \times 33 + (3333 - 3) \\
&:= 4 + (((4 - 4/4) + 4)^4) + 4 \times 4^4 \\
&:= 5 + ((5 \times (55 + 5) - 5/5) + 5^5) \\
&:= (((6+6)/6)^{6+6}) - (666 + 6/6) \\
&:= 7 \times 7 \times (77 - 7) - 7/7 \\
&:= (88/8 + 8 + 8) \times (8 \times (8 + 8) - 8/8) \\
&:= 9 + ((9/9 + 9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3430 &:= (1+1) \times ((1+1)^{11} - (1+1+1) \times 111) \\
&:= 2 + (2 \times ((2 \times 22)^2 - 222)) \\
&:= (3 \times 3 + 3/3) \times ((3/3 + 3 + 3)^3) \\
&:= ((44 - 4)/4 + 4) \times (4^4 - 44/4) \\
&:= 5 + (5 \times (55 + 5) + 5^5) \\
&:= (((6+6)/6)^{6+6}) - 666 \\
&:= 7 \times 7 \times (77 - 7) \\
&:= (8 - 8/8) \times (8 \times 8 \times 8 - (88 + 88)/8) \\
&:= (99 - 9/9) \times (((9 - 9/9) + 9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3431 &:= ((1+1) \times (11 \times ((1+11) \times (1+1+11)))) - 1 \\
&:= (2 \times (2 \times 22)^2) - ((22 - 2/2)^2) \\
&:= 3 \times 33 + (3333 - 3/3) \\
&:= 4 + (((4+4)^4) - ((4/4+4)^4 + 44)) \\
&:= 5 + ((5 \times (55 + 5) + 5^5) + 5/5) \\
&:= 6/6 + (((6+6)/6)^{6+6}) - 666 \\
&:= 7/7 + 7 \times 7 \times (77 - 7) \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 8)) - (8/8 + 88) \\
&:= 99/9 + ((9/9 + 9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3432 &:= (1+1) \times (11 \times ((1+11) \times (1+1+11))) \\
&:= 2 \times (((2 \times 22)^2 - 222) + 2) \\
&:= 3 \times 33 + 3333 \\
&:= 4 + (((4+4) \times (444 - 4 \times 4)) + 4) \\
&:= 5^5 + (5^5 - 55)/(5+5) \\
&:= 66 \times (((6+6)/6)^6 - (6+6)) \\
&:= (7+7)/7 + 7 \times 7 \times (77 - 7) \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 8)) - 88 \\
&:= 99 + (9999/(9+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3433 &:= ((1+1) \times (((1+11)^{1+1+1} - 11)) - 1) \\
&:= 2 + ((2 \times (2 \times 22)^2) - ((22 - 2/2)^2)) \\
&:= 3/3 + (3333 + 3 \times 33) \\
&:= 4 + (((4 - 4/4) + 4)^4) + 4 \times 4^4 + 4) \\
&:= 5^5 + ((5^5 + 5)/(5+5) - 5) \\
&:= 6/6 + (66 \times (((6+6)/6)^6 - (6+6))) \\
&:= (7+7+7)/7 + 7 \times 7 \times (77 - 7) \\
&:= 8/8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) - 88) \\
&:= 9/9 + ((9999/(9+9+9)/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3434 &:= (1+1) \times (((1+11)^{1+1+1} - 11) \\
&:= ((2+2+2) \times ((22+2)^2)) - 22 \\
&:= 3 + ((3333 - 3/3) + 3 \times 33) \\
&:= 4 + (((44 - 4)/4 + 4) \times (4^4 - 44/4)) \\
&:= 5 + (((5 \times (55 + 5) - 5/5) + 5^5) + 5) \\
&:= (6+6)/6 + (66 \times (((6+6)/6)^6 - (6+6))) \\
&:= 77/7 + (7 \times 7 \times (77 - 7) - 7) \\
&:= (8+8)/8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) - 88) \\
&:= ((99/9) \times ((9+9) \times (9+9) - (99/9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3435 &:= 1 + ((1+1) \times (((1+11)^{1+1+1} - 11)) \\
&:= 2/2 + (((2+2+2) \times ((22+2)^2)) - 22) \\
&:= 3 + (3333 + 3 \times 33) \\
&:= 44 + ((4 \times 4 \times (4^4 - 44)) - 4/4) \\
&:= 5 + ((5 \times (55 + 5) + 5^5) + 5) \\
&:= (666/6 \times ((6 \times 6 - 6) + 6/6)) - 6 \\
&:= 7 + (7 \times 7 \times (77 - 7) - ((7+7)/7)) \\
&:= 8 + (((8/8 - 8 \times 8) \times (88/8 - 8 \times 8)) + 88) \\
&:= 99 + ((9999 + 9)/(9+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3436 &:= (1+1) \times (1 + (((1+11)^{1+1+1} - 11)) \\
&:= 2 + (((2+2+2) \times ((22+2)^2)) - 22) \\
&:= 3 + ((3333 + 3 \times 33) + 3/3) \\
&:= 44 + (4 \times 4 \times (4^4 - 44)) \\
&:= 5^5 + (5 \times (55 + 5) + (55/5)) \\
&:= 6 + (((6+6)/6)^{6+6}) - 666 \\
&:= 7 + (7 \times 7 \times (77 - 7) - 7/7) \\
&:= 8 + ((88 \times 88 - 888)/(8+8)/8)) \\
&:= 9999 - (9 \times 9 \times 9 \times 9 + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3437 &:= 1 + ((1+1) \times (1 + (((1+11)^{1+1+1} - 11))) \\
&:= (((2 \times (22 + 2) + 22/2)^2) - (2 \times 22) \\
&:= (33/3)^3 + (3 \times (3^3 + 3 - 3^3)) \\
&:= 44 + ((4 \times 4 \times (4^4 - 44)) + 4/4) \\
&:= 5^5 + (5^5 - 5)/(5+5) \\
&:= 666 + ((66 \times (6 \times 6 + 6)) - 6/6) \\
&:= 7 + 7 \times 7 \times (77 - 7) \\
&:= ((8/8 + 8 \times 8) \times (8 \times 8 - 88/8)) - 8 \\
&:= 9 + (9 \times (9+9) \times (9+9) + ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3438 &:= (1+1) \times (1 + (1 + (((1+11)^{1+1+1} - 11))) \\
&:= (2/2 + 2) \times ((2 \times (((22+2)^2) - 2)) - 2) \\
&:= (3+3) \times (((3 \times 3 + 3)^3/3) - 3) \\
&:= ((4 \times 4 + 4) \times (4 \times 44 - 4)) - (4+4)/4 \\
&:= 5^5 + (5^5 + 5)/(5+5) \\
&:= 666 + (66 \times (6 \times 6 + 6)) \\
&:= 7 + (7 \times 7 \times (77 - 7) + 7/7) \\
&:= (8/8 + 8) \times ((8 \times (8 \times 8 - 8) - 8)) - ((8+8)/8) \\
&:= 9999 - 9 \times 9 \times 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3439 &:= (111 \times (1 + ((11 - 1) \times (1 + 1 + 1)))) - 1 - 1 \\
&:= 22/2 + (2 \times ((2 \times 22)^2 - 222)) \\
&:= ((3/3 + 3)^3) + (3 \times 3 + 3 + 3)^3 \\
&:= ((4 \times 4 + 4) \times (4 \times 44 - 4)) - 4/4 \\
&:= 5^5 + ((5^5 + 5)/(5+5) + 5/5) \\
&:= 6/6 + ((66 \times (6 \times 6 + 6)) + 666) \\
&:= 7 + (7 \times 7 \times (77 - 7) + ((7+7)/7)) \\
&:= 8 \times 8 + ((8 - 8/8 + 8)^{88/8-8}) \\
&:= 9/9 + (9999 - 9 \times 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3440 &:= (11 - 1) \times (11 + (1 + 1 + 1) \times 111) \\
&:= 2 \times ((2 - 22) \times (2 - 2 \times 2 \times 22)) \\
&:= 3^3 + 3 + (((33/3 + 3)^3) - 33) \\
&:= (4 \times 4 + 4) \times (4 \times 44 - 4) \\
&:= 5^5 + ((5 \times 5 + 5^5)/(5+5)) \\
&:= (((66 - 6)/6) + 6) \times (6 \times 6 \times 6 - 6/6) \\
&:= ((77 - 7)/7) + 7 \times 7 \times (77 - 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) - 88) \\
&:= (99/9 + 9) \times ((9 \times (9+9) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3441 &:= 111 \times (1 + ((11 - 1) \times (1 + 1 + 1))) \\
&:= 222/2 \times ((2/2 + 2)^2 + 22) \\
&:= (3 \times (33 + 3)) + 3333 \\
&:= 4/4 + ((4 \times 4 + 4) \times (4 \times 44 - 4)) \\
&:= 555/5 \times ((5 \times 5 + 5/5) + 5) \\
&:= 666/6 \times ((6 \times 6 - 6) + 6/6) \\
&:= 77/7 + 7 \times 7 \times (77 - 7) \\
&:= 888/8 \times (((8 - 8/8 + 8) + 8) + 8) \\
&:= 999/9 \times (((99 + 99)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3442 &:= 1 + (111 \times (1 + ((11 - 1) \times (1 + 1 + 1)))) \\
&:= ((2+2+2) \times (((22+2)^2) - 2)) - 2 \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + ((3/3 + 3)^3)) \\
&:= (4+4)/4 + ((4 \times 4 + 4) \times (4 \times 44 - 4)) \\
&:= 5 + ((5^5 - 5)/(5+5) + 5^5) \\
&:= 6 + (((6+6)/6)^{6+6}) - 666 + 6) \\
&:= (77 + 7)/7 + 7 \times 7 \times (77 - 7) \\
&:= ((8 - (8+8)/8) \times (8 \times (8 \times 8 + 8) - 8/8)) - 8 \\
&:= 9/9 + (999/9 \times (((99 + 99)/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3443 &:= 111 + (((1+1+1) \times 1111) - 1) \\
&:= ((2+2+2) \times (((22+2)^2) - 2)) - 2/2 \\
&:= 3333 + ((333-3)/3) \\
&:= 4 + (((4 \times 4+4) \times (4 \times 44-4)) - 4/4) \\
&:= 5 + ((5^5+5)/(5+5) + 5^5) \\
&:= 6 + (((66 \times (6 \times 6+6)) - 6/6) + 666) \\
&:= 7 + ((7 \times 7 \times (77-7) - 7/7) + 7) \\
&:= 88/8 + ((8 \times (8 \times (8 \times 8-8) - 8)) - 88) \\
&:= 99/9 \times ((9+9) \times (9+9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3444 &:= 111 + ((1+1+1) \times 1111) \\
&:= (2+2+2) \times (((22+2)^2) - 2) \\
&:= 333/3 + 3333 \\
&:= 4 + ((4 \times 4+4) \times (4 \times 44-4)) \\
&:= 5 + (((5^5+5)/(5+5) + 5^5) + 5/5) \\
&:= 6 + ((66 \times (6 \times 6+6)) + 666) \\
&:= 7 + (7 \times 7 \times (77-7) + 7) \\
&:= (8-8/8) \times (88 \times 88/(8+8) + 8) \\
&:= (9/9+9 \times 9) \times ((99/((9+9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3445 &:= ((1+1) \times ((1+11)^{1+1+1})) - 11 \\
&:= 2/2 + ((2+2+2) \times (((22+2)^2) - 2)) \\
&:= 3333 + ((333+3)/3) \\
&:= (4^4+4)/4 \times (4^4-44)/4 \\
&:= 5^5 + ((5+5) \times ((5+5)/5)^5) \\
&:= (6/6-66) \times (((6/6-66)+6)+6) \\
&:= 7 + ((7 \times 7 \times (77-7) + 7/7) + 7) \\
&:= (8/8+8 \times 8) \times (8 \times 8-88/8) \\
&:= ((9+9) \times (999/9+9 \times 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3446 &:= 1 + (((1+1) \times ((1+11)^{1+1+1})) - 11) \\
&:= 2 + ((2+2+2) \times (((22+2)^2) - 2)) \\
&:= 3 + (((333-3)/3) + 3333) \\
&:= 4 + (((4 \times 4+4) \times (4 \times 44-4)) + (4+4)/4) \\
&:= 5 + (555/5 \times ((5 \times 5+5/5) + 5)) \\
&:= 6 + (((66-6)/6) + 6) \times (6 \times 6 \times 6-6/6) \\
&:= 7 + ((7 \times 7 \times (77-7) + ((7+7)/7)) + 7) \\
&:= 8/8 + ((8/8+8 \times 8) \times (8 \times 8-88/8)) \\
&:= 9 + ((9 \times (9+9) \times (9+9) + ((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3447 &:= 111 + ((1+1+1) \times (1+1111)) \\
&:= 2 + (((2+2+2) \times (((22+2)^2) - 2)) + 2/2) \\
&:= 3 + (333/3 + 3333) \\
&:= 4 + (((4 \times 4+4) \times (4 \times 44-4)) - 4/4) + 4) \\
&:= 5 + (((5^5-5)/(5+5) + 5^5) + 5) \\
&:= 6 + (666/6 \times ((6 \times 6-6) + 6/6)) \\
&:= 7 + (7 \times 7 \times (77-7) + ((77-7)/7)) \\
&:= (8/8+8) \times ((8 \times (8 \times 8-8) - 8/8)) \\
&:= 9 + (9999-9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3448 &:= 1 + (111 + ((1+1+1) \times (1+1111))) \\
&:= 2 + (((2+2+2) \times (((22+2)^2) - 2)) + 2) \\
&:= ((3/3+3)^{3+3}) - 3 \times (3+3)^3 \\
&:= 4 + (((4 \times 4+4) \times (4 \times 44-4)) + 4) \\
&:= 5 + (((5^5+5)/(5+5) + 5^5) + 5) \\
&:= ((6+6)/6+6) \times ((6 \times (66+6)) - 6/6) \\
&:= 7 + (7 \times 7 \times (77-7) + (77/7)) \\
&:= (8 \times ((8 \times 8 \times 8-88) + 8)) - 8 \\
&:= (9-9/9) \times (((9+9)/9)^9) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3449 &:= ((1+1) \times (1 + (1 + ((1+11)^{1+1+1})))) - 11 \\
&:= (2 \times (22-2))^2 + (((2 \times 22) - 2/2)^2) \\
&:= (((3+3) \times ((3 \times 3+3)^3 - 3)) - 3)/3 \\
&:= 4 + ((4^4+4)/4 \times (4^4-44)/4) \\
&:= 5^5 + ((5/5+5) \times (55-5/5)) \\
&:= (6 \times (6 \times (6 \times 6-6+66))) - 6/6-6 \\
&:= 7 + (7 \times 7 \times (77-7) + (77+7)/7) \\
&:= 8/8 + ((8 \times ((8 \times 8 \times 8-88) + 8)) - 8) \\
&:= 9 + ((99/9+9) \times ((9 \times (9+9) + 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3450 &:= (1+1) \times (((1+11)^{1+1+1}) - (1+1+1)) \\
&:= (2/2+2) \times ((2 \times ((22+2)^2)) - 2) \\
&:= (3+3) \times (((3 \times 3+3)^3 - 3)/3) \\
&:= ((44+4^4)/4) \times ((4+4)/4+44) \\
&:= 5^5 + (5 \times (55+5+5)) \\
&:= (6 \times (6 \times (6 \times 6-6+66))) - 6 \\
&:= (7/7+7 \times 7) \times (77 - (7/7+7)) \\
&:= (8 - (8+8)/8) \times (8 \times (8 \times 8+8) - 8/8) \\
&:= 9 + (999/9 \times (((99+99)/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3451 &:= ((1+1) \times (((1+11)^{1+1+1}) - (1+1))) - 1 \\
&:= 2/2 + ((2/2+2) \times ((2 \times ((22+2)^2)) - 2)) \\
&:= (((3+3) \times ((3 \times 3+3)^3 - 3)) + 3)/3 \\
&:= 44/4 + ((4 \times 4+4) \times (4 \times 44-4)) \\
&:= 5^5 + ((5 \times (55+5+5)) + 5/5) \\
&:= 6/6 + ((6 \times (6 \times (6 \times 6-6+66))) - 6) \\
&:= 7 + ((7 \times 7 \times (77-7) + 7) + 7) \\
&:= (8-8/8) \times (8 \times 8 \times 8 - (88/8+8)) \\
&:= (99/9+9+9) \times ((99/9+99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3452 &:= (1+1) \times (((1+11)^{1+1+1}) - (1+1)) \\
&:= 2 \times (((2/2+2) \times ((22+2)^2)) - 2) \\
&:= (((3+3) \times (3 \times 3+3)^3) - 3)/3 - 3 \\
&:= (4 \times (4 \times (4^4-44+4))) - 4 \\
&:= 5 + (((5^5-5)/(5+5) + 5^5) + 5) + 5) \\
&:= (6+6)/6 + ((6 \times (6 \times (6 \times 6-6+66))) - 6) \\
&:= 7 + (((7 \times 7 \times (77-7) + 7/7) + 7) + 7) \\
&:= (((88+8) \times (8 \times 8+8)) - 8)/(8+8)/8) \\
&:= 9 + ((99/9) \times ((9+9) \times (9+9) - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3453 &:= ((1+1) \times (((1+11)^{1+1+1}) - 1)) - 1 \\
&:= (2/2+2) \times ((2 \times ((22+2)^2)) - 2/2) \\
&:= ((3+3) \times ((3 \times 3+3)^3/3)) - 3 \\
&:= 4/4 + ((4 \times (4 \times (4^4-44+4))) - 4) \\
&:= 5 + (((5^5+5)/(5+5) + 5^5) + 5) + 5) \\
&:= (66 \times (66-6-6)) - 666/6 \\
&:= 7 + (((7 \times 7 \times (77-7) + ((7+7)/7)) + 7) + 7) \\
&:= 8 + ((8/8+8 \times 8) \times (8 \times 8-88/8)) \\
&:= ((9+9) \times (99+99)) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3454 &:= (1+1) \times (((1+11)^{1+1+1}) - 1) \\
&:= ((2+2+2) \times ((22+2)^2)) - 2 \\
&:= (3-3/3) \times ((3 \times 3+3)^3 - 3/3) \\
&:= (4 \times (4 \times (4^4-44+4))) - (4+4)/4 \\
&:= 55 + ((5 \times 55-5/5) + 5^5) \\
&:= (6 \times (6 \times (6 \times 6-6+66))) - (6+6)/6 \\
&:= 7 + ((7 \times 7 \times (77-7) + ((77-7)/7)) + 7) \\
&:= (8 \times ((8 \times 8 \times 8-88) + 8)) - (8+8)/8 \\
&:= 99/9 \times ((9+9) \times (9+9) - (9/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3455 &:= ((1+1) \times ((1+11)^{1+1+1})) - 1 \\
&:= ((2+2+2) \times ((22+2)^2)) - 2/2 \\
&:= (((3+3) \times (3 \times 3+3)^3) - 3)/3 \\
&:= ((4+4)^4) - ((4/4+4)^4 + 4 \times 4) \\
&:= 55 + (5 \times 55+5^5) \\
&:= (6 \times (6 \times (6 \times 6-6+66))) - 6/6 \\
&:= 7 + ((7 \times 7 \times (77-7) + (77/7)) + 7) \\
&:= (8 \times ((8 \times 8 \times 8-88) + 8)) - 8/8 \\
&:= ((9+9) \times (999/9+9 \times 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3456 &:= (1+1) \times ((1+11)^{1+1+1}) \\
&:= (2+2+2) \times ((22+2)^2) \\
&:= (3+3) \times ((3 \times 3+3)^3/3) \\
&:= 4 \times (4 \times (4^4-44+4)) \\
&:= 55 + (5 \times 55+5^5+5/5) \\
&:= 6 \times (6 \times (6 \times 6-6+66)) \\
&:= ((7+7)/7)^7 \times (((7-7/7+7) + 7) + 7) \\
&:= 8 \times ((8 \times 8 \times 8-88) + 8) \\
&:= (9+9) \times (999/9+9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3457 &:= 1 + ((1+1) \times ((1+11)^{1+1+1})) \\
&:= 2/2 + ((2+2+2) \times ((22+2)^2)) \\
&:= (((3+3) \times (3 \times 3+3)^3) + 3)/3 \\
&:= 4/4 + (4 \times (4 \times (4^4-44+4))) \\
&:= 5 \times 5 + ((5^5-55)/(5+5) + 5^5) \\
&:= 6/6 + (6 \times (6 \times (6 \times 6-6+66))) \\
&:= 7 + (((7/7+7 \times 7) \times (77 - (7/7+7))) \\
&:= 8/8 + (8 \times ((8 \times 8 \times 8-88) + 8)) \\
&:= 9 + ((9-9/9) \times (((9+9)/9)^9) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3458 &:= (1+1) \times (1 + ((1+11)^{1+1+1})) \\
&:= 2 + ((2+2+2) \times ((22+2)^2)) \\
&:= 3 + (((3+3) \times (3 \times 3+3)^3) - 3)/3 \\
&:= (4+4)/4 + (4 \times (4 \times (4^4 - 44+4))) \\
&:= 5 \times 5 + ((5^5+5)/(5+5) - 5) + 5^5 \\
&:= (6+6)/6 + (6 \times (6 \times (6 \times 6 - 6+66))) \\
&:= 77 + (7 \times (7 \times (77-7) - 7)) \\
&:= (8+8)/8 + (8 \times ((8 \times 8 \times 8 - 88) + 8)) \\
&:= (9 - (9+9)/9) \times (((9+9)/9)^9) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3459 &:= 1 + ((1+1) \times (1 + ((1+11)^{1+1+1}))) \\
&:= 2 + (((2+2+2) \times ((22+2)^2)) + 2/2) \\
&:= 3 + ((3+3) \times ((3 \times 3+3)^3/3)) \\
&:= 4 + (((4+4)^4) - ((4/4+4)^4 + 4 \times 4)) \\
&:= 5 + (((5 \times 55 - 5/5) + 5^5) + 55) \\
&:= 6 + ((66 \times (66 - 6 - 6)) - 666/6) \\
&:= 7/7 + ((7 \times (7 \times (77-7) - 7)) + 77) \\
&:= 8 + ((8 - 8/8) \times (8 \times 8 \times 8 - (88/8 + 8))) \\
&:= 9 + ((999/9 \times ((99+99)/9 + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3460 &:= (1+1) \times (1 + (1 + ((1+11)^{1+1+1}))) \\
&:= 2 + (((2+2+2) \times ((22+2)^2)) + 2) \\
&:= 3 + (((3+3) \times (3 \times 3+3)^3) + 3)/3 \\
&:= 4 + (4 \times (4 \times (4^4 - 44+4))) \\
&:= 5 + ((5 \times 55 + 55) + 5^5) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 - 6+66))) - ((6+6)/6)) \\
&:= 77 + ((7 \times (7 \times (77-7) - 7)) + ((7+7)/7)) \\
&:= (((88+8) \times (8 \times 8+8)) + 8)/(8+8)/8 \\
&:= (99/9+9) \times (99/9+9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3461 &:= 1 + ((1+1) \times (1 + (1 + ((1+11)^{1+1+1})))) \\
&:= 2 + (((2+2+2) \times ((22+2)^2)) + 2/2) + 2 \\
&:= (((3+3) \times ((3 \times 3+3)^3 + 3)) - 3)/3 \\
&:= 4 + ((4 \times (4 \times (4^4 - 44+4))) + 4/4) \\
&:= 5^5 + (5/5+5) \times (55+5/5) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 - 6+66))) - 6/6) \\
&:= (7 \times (7 \times (77-7) + 7)) - (77/7+7) \\
&:= 8 + (((8/8+8 \times 8) \times (8 \times 8 - 88/8)) + 8) \\
&:= 9 + (((99/9) \times ((9+9) \times (9+9) - (99/9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3462 &:= (1+1) \times (1 + (1 + (1 + ((1+11)^{1+1+1})))) \\
&:= (2/2+2) \times ((2 \times ((22+2)^2)) + 2) \\
&:= (3+3) \times (((3 \times 3+3)^3 + 3)/3) \\
&:= 4 + ((4 \times (4 \times (4^4 - 44+4))) + (4+4)/4) \\
&:= 5 \times 5 + ((5^5 - 5)/(5+5) + 5^5) \\
&:= 6 + (6 \times (6 \times (6 \times 6 - 6+66))) \\
&:= (7 - 7/7) \times (7 \times (77+7) - (77/7)) \\
&:= (8 - (8+8)/8) \times (8 \times (8 \times 8 + 8) + 8/8) \\
&:= 9 + (((9+9) \times (99+99)) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3463 &:= 1 + ((1+1) \times (1 + (1 + (1 + ((1+11)^{1+1+1})))))) \\
&:= 2/2 + ((2/2+2) \times ((2 \times ((22+2)^2)) + 2)) \\
&:= (((3+3) \times ((3 \times 3+3)^3 + 3)) + 3)/3 \\
&:= ((4+4)^4) - (((4/4+4)^4 + 4) + 4) \\
&:= 5 \times 5 + ((5^5+5)/(5+5) + 5^5) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 - 6+66))) + 6/6) \\
&:= 7777/7 + 7 \times (7 \times 7 \times 7 - 7) \\
&:= 8 + ((8 \times ((8 \times 8 \times 8 - 88) + 8)) - 8/8) \\
&:= 9 + ((99/9) \times ((9+9) \times (9+9) - (9/9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3464 &:= 11 + (((1+1) \times ((1+11)^{1+1+1}) - 1)) - 1 \\
&:= 2 \times (2 \times (2 \times 2 \times 222 - 22)) \\
&:= (33 \times ((3 \times 33+3) + 3)) - 3/3 \\
&:= (4+4) \times (444 - 44/4) \\
&:= 5^5 + (((5^5 - 55)/5) - 5 \times 55) \\
&:= ((6+6)/6+6) \times ((6 \times (66+6)) + 6/6) \\
&:= (7 \times (7 \times (77-7) + 7)) - (7/7+7+7) \\
&:= 8 + (8 \times ((8 \times 8 \times 8 - 88) + 8)) \\
&:= ((9+9) \times (99+99)) - (9/9+99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3465 &:= 11 + ((1+1) \times (((1+11)^{1+1+1}) - 1)) \\
&:= 2/2 + (2 \times (2 \times (2 \times 2 \times 222 - 22))) \\
&:= 33 \times ((3 \times 33+3) + 3) \\
&:= (44+4/4) \times ((4 - 4/4)^4 - 4) \\
&:= 55 \times (5^5/5+5)/(5+5) \\
&:= (6 - 6/6) \times (((6 \times 6/(6+6))^6) - 6 \times 6) \\
&:= 77 \times ((7 \times 7 - 77/7) + 7) \\
&:= (8/8 - 8 \times 8) \times ((8/8 - 8 \times 8) + 8) \\
&:= 99 \times (((9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3466 &:= 11 + (((1+1) \times ((1+11)^{1+1+1}) - 1)) \\
&:= ((2+2+2) \times (((22+2)^2) + 2)) - 2 \\
&:= 3/3 + (33 \times ((3 \times 33+3) + 3)) \\
&:= ((4+4)^4) - (((4/4+4)^4 + 4/4) + 4) \\
&:= 5 + ((5/5+5) \times (55+5/5) + 5^5) \\
&:= 6 \times 6 + (((6+6)/6)^{6+6}) - 666 \\
&:= 7/7 + (77 \times ((7 \times 7 - 77/7) + 7)) \\
&:= 8 + ((8 \times ((8 \times 8 \times 8 - 88) + 8)) + ((8+8)/8)) \\
&:= 9/9 + (99 \times (((9 - 9/9) + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3467 &:= 11 + ((1+1) \times ((1+11)^{1+1+1})) \\
&:= 22/2 + ((2+2+2) \times ((22+2)^2)) \\
&:= (((3+3) \times (3 \times 3+3)^3) + 33)/3 \\
&:= ((4+4)^4) - ((4/4+4)^4 + 4) \\
&:= 5 + (((5^5 - 5)/(5+5) + 5^5) + 5 \times 5) \\
&:= 66/6 + (6 \times (6 \times (6 \times 6 - 6+66))) \\
&:= (7 \times (7 \times (77-7) + 7)) - (77+7)/7 \\
&:= 88/8 + (8 \times ((8 \times 8 \times 8 - 88) + 8)) \\
&:= 9 + ((9 - (9+9)/9) \times (((9+9)/9)^9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3468 &:= 1 + (11 + ((1+1) \times ((1+11)^{1+1+1}))) \\
&:= (2+2+2) \times (((22+2)^2) + 2) \\
&:= 3 + (33 \times ((3 \times 33+3) + 3)) \\
&:= 4 + ((4+4) \times (444 - 44/4)) \\
&:= 5 + (((5^5+5)/(5+5) + 5^5) + 5 \times 5) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 - 6+66))) + 6) \\
&:= (7 \times (7 \times (77-7) + 7)) - 77/7 \\
&:= ((8 \times 888 + 8)/((8+8)/8)) - 88 \\
&:= (99+9)/9 \times (((9 - 9/9) + 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3469 &:= 11 + ((1+1) \times (1 + ((1+11)^{1+1+1}))) \\
&:= 2/2 + ((2+2+2) \times (((22+2)^2) + 2)) \\
&:= (((3 \times 33+3)^{3-3/3}) + 3)/3 \\
&:= 4 + ((44+4/4) \times ((4 - 4/4)^4 - 4)) \\
&:= 5^5 + (((5^5 - 5)/5) - (5 \times 55 + 5)) \\
&:= ((66 - 6/6 - 6)^{(6+6)/6}) - 6 - 6 \\
&:= ((7 - 77)/7) + (7 \times (7 \times (77-7) + 7)) \\
&:= 88 + ((8 \times (8 \times 8 \times 8 - 88)) - (88/8)) \\
&:= 9 + ((99/9+9) \times (99/9+9 \times (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3470 &:= 1 + (11 + ((1+1) \times (1 + ((1+11)^{1+1+1})))) \\
&:= 2 + ((2+2+2) \times (((22+2)^2) + 2)) \\
&:= 3^{3+3} + (((33/3+3)^3) - 3) \\
&:= ((4+4)^4) - ((4/4+4)^4 + 4/4) \\
&:= 5 + (55 \times (5^5/5+5)/(5+5)) \\
&:= 6 + (((6+6)/6+6) \times ((6 \times (66+6)) + 6/6)) \\
&:= (7 \times (7 \times (77-7) + 7)) - ((7+7)/7+7) \\
&:= 8 + ((8 - (8+8)/8) \times (8 \times (8 \times 8 + 8) + 8/8)) \\
&:= (9/9+9) \times (9 \times 9 \times (9+9) - 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3471 &:= 11 + ((1+1) \times (1 + (1 + ((1+11)^{1+1+1})))) \\
&:= 2 + (((2+2+2) \times (((22+2)^2) + 2)) + 2/2) \\
&:= 3 + ((33 \times ((3 \times 33+3) + 3)) + 3) \\
&:= ((4+4)^4) - (4/4+4)^4 \\
&:= (5 - 5/5)^{5/5+5} - 5^5/5 \\
&:= 6 + ((6 - 6/6) \times (((6 \times 6/(6+6))^6) - 6 \times 6)) \\
&:= (7 \times (7 \times (77-7) + 7)) - (7/7+7) \\
&:= ((8 \times 8 - 8) \times (8 \times 8 - ((8+8)/8))) - 8/8 \\
&:= ((99/9+9+9) \times (999/9+9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3472 &:= (1+111) \times (1 + ((11-1) \times (1+1+1))) \\
&:= 2 \times (2222 - (22^2 + 2)) \\
&:= 3 + (((3 \times 33+3)^{3-3/3}) + 3)/3 \\
&:= 4 \times ((4 \times (4^4 - 44+4)) + 4) \\
&:= 5^5 + ((55/5 \times ((5+5)/5)^5) - 5) \\
&:= ((6 \times 6 - 6) + 6/6) \times (666+6)/6 \\
&:= (7 \times (7 \times (77-7) + 7)) - 7 \\
&:= (8 \times 8 - 8) \times (8 \times 8 - ((8+8)/8)) \\
&:= ((999+9)/9) \times (((99+99)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3473 &:= 1 + ((1 + 111) \times (1 + ((11 - 1) \times (1 + 1 + 1)))) \\
&:= 2/2 + (2 \times (2222 - 22^2 + 2)) \\
&:= 3^{3+3} + ((33/3 + 3)^3) \\
&:= 4/4 + (4 \times ((4 \times (4^4 - 44 + 4) + 4)) \\
&:= 5^5 + ((5^5 - 5 - 5)/5 - 5 \times 55) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 - 6 + 66))) + (66/6)) \\
&:= 7/7 + ((7 \times (7 \times (77 - 7) + 7)) - 7) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - 888/8 \\
&:= 9 + (((9 + 9) \times (99 + 99)) - (9/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3474 &:= (1 + 1) \times (11 + (((1 + 11)^{1+1+1}) - (1 + 1))) \\
&:= (2 \times (2222 - 22^2)) - 2 \\
&:= (3 + 3) \times (((3 \times 3 + 3)^3/3) + 3) \\
&:= 4 + (((4 + 4)^4) - ((4/4 + 4)^4 + 4/4)) \\
&:= 5^5 + ((5^5 - 5)/5 - 5 \times 55) \\
&:= 666 + (6 \times (6 \times (66 + 6 + 6))) \\
&:= (7 + 7)/7 + ((7 \times (7 \times (77 - 7) + 7)) - 7) \\
&:= ((8 - 888)/8) + 8 \times 8 \times (8 \times 8 - 8) \\
&:= 9 + (99 \times (((9 - 9/9) + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3475 &:= ((1 + 1) \times (11 + (((1 + 11)^{1+1+1}) - 1))) - 1 \\
&:= (2 \times (2222 - 22^2)) - 2/2 \\
&:= 3/3 + ((3 \times 3 + 3 + 3)^3 + 3 \times 33) \\
&:= 4 + (((4 + 4)^4) - (4/4 + 4)^4) \\
&:= 5 \times (5 \times 5 \times (5 \times 5 + 5) - 55) \\
&:= ((66 - 6/6 - 6)^{(6+6)/6}) - 6 \\
&:= 7 + ((7 \times (7 \times (77 - 7) + 7)) - (77/7)) \\
&:= 8 + ((8 \times ((8 \times 8 \times 8 - 88) + 8)) + (88/8)) \\
&:= 9 + ((99 \times (((9 - 9/9) + 9) + 9) + 9)) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3476 &:= (1 + 1) \times (11 + (((1 + 11)^{1+1+1}) - 1)) \\
&:= 2 \times (2222 - 22^2) \\
&:= 3 + (((33/3 + 3)^3) + 3^{3+3}) \\
&:= 44 \times (((44 + 4^4)/4) + 4) \\
&:= 5^5 + ((5^5 + 5)/5 - 5 \times 55) \\
&:= 6/6 + (((66 - 6/6 - 6)^{(6+6)/6}) - 6) \\
&:= (7 \times (7 \times (77 - 7) + 7)) - (7 + 7)/7 \\
&:= (88/((8 + 8)/8)) \times (88 - (8/8 + 8)) \\
&:= 99/9 \times (((9 + 9) \times (9 + 9) - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3477 &:= ((1 + 1) \times (11 + ((1 + 11)^{1+1+1}))) - 1 \\
&:= 2/2 + (2 \times (2222 - 22^2)) \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + 3 \times 33) \\
&:= (((4^4 - 4)/4) - 4)^{(4+4)/4} - 4 \\
&:= 5^5 + (55/5 \times ((5 + 5)/5)^5) \\
&:= 6 \times 6 + (666/6 \times ((6 \times 6 - 6) + 6/6)) \\
&:= (7 \times (7 \times (77 - 7) + 7)) - (7 + 7)/7 \\
&:= (88/8 + 8) \times ((888/8 + 8 \times 8) + 8) \\
&:= (9/9 + 9 + 9) \times ((999/9 - 9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3478 &:= (1 + 1) \times (11 + ((1 + 11)^{1+1+1})) \\
&:= 2 + (2 \times (2222 - 22^2)) \\
&:= (3 - 3/3) \times ((3 \times 3 + 3)^3 + 33/3) \\
&:= 4 + (((4 + 4)^4) - ((4/4 + 4)^4 + 4/4) + 4) \\
&:= 5^5 + (((55 \times ((5 + 5)/5)^5) + 5)/5) \\
&:= 6 + (((6 \times 6 - 6) + 6/6) \times (666 + 6)/6) \\
&:= (7 \times (7 \times (77 - 7) + 7)) - 7/7 \\
&:= 88 + ((8 \times (8 \times 8 \times 8 - 88)) - ((8 + 8)/8)) \\
&:= 9 + (((99/9 + 9) \times (99/9 + 9 \times (9 + 9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3479 &:= 1 + ((1 + 1) \times (11 + ((1 + 11)^{1+1+1}))) \\
&:= ((2 \times (22 + 2)) + 22/2)^2 - 2 \\
&:= 3 + (((33/3 + 3)^3) + 3^{3+3}) + 3) \\
&:= 4 + (((4 + 4)^4) - (4/4 + 4)^4) + 4) \\
&:= 5 + (((5^5 - 5)/5 - 5 \times 55) + 5^5) \\
&:= ((6 - 66) \times (6 - ((6 + 6)/6)^6)) - 6/6 \\
&:= 7 \times (7 \times (77 - 7) + 7) \\
&:= 88 + ((8 \times (8 \times 8 \times 8 - 88)) - 8/8) \\
&:= (9 \times 9 - (9/9 + 9)) \times ((9 \times 99 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3480 &:= (1 + 1) \times (1 + (11 + ((1 + 11)^{1+1+1}))) \\
&:= 2 \times ((2222 - 22^2) + 2) \\
&:= (3 + 3) \times (((3 \times 3 + 3)^3 + 3)/3) + 3) \\
&:= 4 + (44 \times (((44 + 4^4)/4) + 4)) \\
&:= 55 + (5 \times (55 + 5) + 5^5) \\
&:= (6 - 66) \times (6 - ((6 + 6)/6)^6) \\
&:= 7/7 + (7 \times (7 \times (77 - 7) + 7)) \\
&:= 88 + (8 \times (8 \times 8 \times 8 - 88)) \\
&:= (99/9 + 9 + 9) \times (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3481 &:= ((11^{1+1} - 1)/(1 + 1) - 1)^{1+1} \\
&:= ((2 \times (22 + 2)) + 22/2)^2 \\
&:= ((33 - 3/3) + 3^3)^{3-3/3} \\
&:= (((4^4 - 4)/4) - 4)^{(4+4)/4} \\
&:= (55 - 5/5 + 5)^{(5+5)/5} \\
&:= (66 - 6/6 - 6)^{(6+6)/6} \\
&:= (7 + 7)/7 + (7 \times (7 \times (77 - 7) + 7)) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) - 888/8) \\
&:= (((9 \times 99 + 9)/(9 + 9)) + 9)^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3482 &:= 1 + (((11^{1+1} - 1)/(1 + 1) - 1)^{1+1}) \\
&:= (2 \times ((2 \times 22 - 2)^2 - 22)) - 2 \\
&:= 3^3 + (((3 + 3) \times (3 \times 3 + 3)^3) - 3)/3) \\
&:= 4/4 + (((4^4 - 4)/4) - 4)^{(4+4)/4} \\
&:= 5 + ((55/5 \times ((5 + 5)/5)^5) + 5^5) \\
&:= 6/6 + ((66 - 6/6 - 6)^{(6+6)/6}) \\
&:= (7 + 7 + 7)/7 + (7 \times (7 \times (77 - 7) + 7)) \\
&:= 8 + (((8 - 888)/8) + 8 \times 8 \times (8 \times 8 - 8)) \\
&:= ((9 + 9) \times (99 + 99)) - (9/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3483 &:= 1 + (1 + (((11^{1+1} - 1)/(1 + 1) - 1)^{1+1})) \\
&:= 2 + (((2 \times (22 + 2)) + 22/2)^2) \\
&:= 3 \times ((33 \times (33 + 3)) - 3^3) \\
&:= (4 - 4/4)^4 \times (44 - 4/4) \\
&:= 5 + (55 \times ((5 + 5)/5)^5 + 5)/5 + 5^5 \\
&:= (6 + 6)/6 + ((66 - 6/6 - 6)^{(6+6)/6}) \\
&:= 77/7 + ((7 \times (7 \times (77 - 7) + 7)) - 7) \\
&:= (88/8 + 8 + 8) \times (8 \times (8 + 8) + 8/8) \\
&:= 9 \times ((9 + 9) \times (9 + 9 + 9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3484 &:= 1 + (1 + (1 + (((11^{1+1} - 1)/(1 + 1) - 1)^{1+1}))) \\
&:= 2 \times ((2 \times 22 - 2)^2 - 22) \\
&:= 3 + (((33 - 3/3) + 3^3)^{3-3/3}) \\
&:= ((4 + 4) \times (444 - (4 + 4))) - 4 \\
&:= 5^5 + ((5/5 + 5) \times (55 + 5) - 5/5) \\
&:= (66 + 6/6) \times (((6 + 6)/6)^6 - (6 + 6)) \\
&:= 7 + ((7 \times (7 \times (77 - 7) + 7)) - ((7 + 7)/7)) \\
&:= ((8 \times (888 - (8 + 8))) - 8)/(8 + 8)/8) \\
&:= 9/9 + (9 \times ((9 + 9) \times (9 + 9 + 9) - 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3485 &:= 111 + (((1 + 1 + 1 + 1 + 11)^{1+1+1}) - 1) \\
&:= 2 + (((2 \times (22 + 2)) + 22/2)^2 + 2) \\
&:= (33/3)^3 + (3 \times 3^{3+3} - 33) \\
&:= 4 + (((4^4 - 4)/4) - 4)^{(4+4)/4} \\
&:= 5^5 + (5/5 + 5) \times (55 + 5) \\
&:= 6 \times (66 - 6) + ((6 - 6/6)^{6-6/6}) \\
&:= 7 + ((7 \times (7 \times (77 - 7) + 7)) - 7/7) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - (88/8 + 88) \\
&:= ((9 - (9 + 9)/9) \times ((9 + 9)/9)^9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3486 &:= 111 + ((1 + 1 + 1 + 1 + 11)^{1+1+1}) \\
&:= 2 + (2 \times ((2 \times 22 - 2)^2 - 22)) \\
&:= 3 + ((3 \times 33 \times 33) + (3 + 3)^3) \\
&:= ((4 + 4)/4 + 4) \times ((4/4 + 4)^4 - 44) \\
&:= 5 + ((55 - 5/5 + 5)^{(5+5)/5}) \\
&:= 6 + ((6 - 66) \times (6 - ((6 + 6)/6)^6)) \\
&:= 7 + (7 \times (7 \times (77 - 7) + 7)) \\
&:= (8 - 8/8) \times (((8 + 8)/8) - (8 + 8)) + 8 \times 8 \times 8) \\
&:= 9 + ((9/9 + 9 + 9) \times ((999/9 - 9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3487 &:= ((111 - 1 - 1) \times ((11 \times (1 + 1 + 1)) - 1)) - 1 \\
&:= (2^{2+2} \times (222 - (2 + 2))) - 2/2 \\
&:= (3 \times 3 + 3 + 3)^3 + ((333 + 3)/3) \\
&:= 4 + ((4 - 4/4)^4 \times (44 - 4/4)) \\
&:= 55/5 \times ((5^5 - 5)/(5 + 5) + 5) \\
&:= 6 + ((66 - 6/6 - 6)^{(6+6)/6}) \\
&:= 7 + ((7 \times (7 \times (77 - 7) + 7)) + 7/7) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - ((8/8 + 88) + 8) \\
&:= 99/9 \times (((9 + 9) \times (9 + 9) - 9) + ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3488 &:= (111 - 1 - 1) \times ((11 \times (1 + 1 + 1)) - 1) \\
&:= 2^{2+2} \times (222 - (2 + 2)) \\
&:= 33 + (((3 + 3) \times (3 \times 3 + 3)^3) - 3)/3 \\
&:= (4 + 4) \times (444 - (4 + 4)) \\
&:= 55 + (((5^5 + 5)/(5 + 5) - 5) + 5^5) \\
&:= 6 \times 6 \times 66 + (6666 + 6)/6 \\
&:= 7 + ((7 \times (7 \times (77 - 7) + 7)) + ((7 + 7)/7)) \\
&:= 8 \times (888 / ((8 + 8)/8) - 8) \\
&:= (9 - 9/9) \times (((9 \times 9 \times 99 - 9)/(9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3489 &:= 1 + ((111 - 1 - 1) \times ((11 \times (1 + 1 + 1)) - 1)) \\
&:= 2/2 + (2^{2+2} \times (222 - (2 + 2))) \\
&:= 33 + ((3 + 3) \times ((3 \times 3 + 3)^3/3)) \\
&:= 4/4 + ((4 + 4) \times (444 - (4 + 4))) \\
&:= 5^5 + ((5 \times (5 \times (5 + 5 + 5))) - (55/5)) \\
&:= (6 \times (666 - 66)) - 666/6 \\
&:= ((77 - 7)/7) + (7 \times (7 \times (77 - 7) + 7)) \\
&:= 8/8 + (8 \times (888 / ((8 + 8)/8) - 8)) \\
&:= 9 + ((99/9 + 9 + 9) \times (999/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3490 &:= 111 + ((1 + 1)^{11} + 11^{1+1+1}) \\
&:= 2 + (2^{2+2} \times (222 - (2 + 2))) \\
&:= 33 + (((3 + 3) \times (3 \times 3 + 3)^3) + 3)/3 \\
&:= (4 + 4)/4 + ((4 + 4) \times (444 - (4 + 4))) \\
&:= 5 + ((5/5 + 5) \times (55 + 5) + 5^5) \\
&:= 6 + ((66 + 6/6) \times (((6 + 6)/6)^6 - (6 + 6))) \\
&:= 77/7 + (7 \times (7 \times (77 - 7) + 7)) \\
&:= (8 + 8)/8 + (8 \times (888 / ((8 + 8)/8) - 8)) \\
&:= 9 + (((9 \times 99 + 9)/(9 + 9)) + 9)^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3491 &:= (1 + 1)^{11} + (111 \times (1 + 1 + 11)) \\
&:= 2 + ((2^{2+2} \times (222 - (2 + 2))) + 2/2) \\
&:= (33/3)^3 + (3 \times (3^{3+3} - 3 \times 3)) \\
&:= 4 + (((4 - 4/4)^4 \times (44 - 4/4)) + 4) \\
&:= 5 + (((55 - 5/5 + 5)^{(5+5)/5}) + 5) \\
&:= (6 \times ((6 \times (6 \times 6 - 6 + 66)) + 6)) - 6/6 \\
&:= (77 + 7)/7 + (7 \times (7 \times (77 - 7) + 7)) \\
&:= 8 + ((88/8 + 8 + 8) \times (8 \times (8 + 8) + 8/8)) \\
&:= 9 + (((9 + 9) \times (99 + 99)) - (9/9 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3492 &:= 1 + ((1 + 1)^{11} + (111 \times (1 + 1 + 11))) \\
&:= 2 + ((2^{2+2} \times (222 - (2 + 2))) + 2) \\
&:= 3 \times (((33 \times (33 + 3)) - 3^3) + 3) \\
&:= 4 + ((4 + 4) \times (444 - (4 + 4))) \\
&:= 55 + ((5^5 - 5)/(5 + 5) + 5^5) \\
&:= 6 \times ((6 \times (6 \times 6 - 6 + 66)) + 6) \\
&:= 7 + (((7 \times (7 \times (77 - 7) + 7)) - 7/7) + 7) \\
&:= ((8 \times (888 - (8 + 8))) + 8) / ((8 + 8)/8) \\
&:= 9 + (9 \times ((9 + 9) \times (9 + 9 + 9) - 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3493 &:= 1 + (1 + ((1 + 1)^{11} + (111 \times (1 + 1 + 11)))) \\
&:= 2 + (((2^{2+2} \times (222 - (2 + 2))) + 2/2) + 2) \\
&:= 3 + (((3 + 3) \times ((3 \times 3 + 3)^3) + 3)/3) + 33 \\
&:= 4 + (((4 + 4) \times (444 - (4 + 4))) + 4/4) \\
&:= 55 + ((5^5 + 5)/(5 + 5) + 5^5) \\
&:= 6 + (((66 - 6/6 - 6)^{(6+6)/6}) + 6) \\
&:= 7 + ((7 \times (7 \times (77 - 7) + 7)) + 7) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) - (88/8 + 88)) \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9 + 9) - 99)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3494 &:= 1 + (1 + (1 + ((1 + 1)^{11} + (111 \times (1 + 1 + 11)))))) \\
&:= (2 \times ((2 \times 22 - 2)^2 - 2^{2+2})) - 2 \\
&:= (3 + 3) \times 3^3 + (3333 - 3/3) \\
&:= (((4 + 4)/4 + 4) \times (4/4 + 4^4)) - 4^4 \\
&:= 5^5 + ((5 \times (5 \times (5 + 5 + 5))) - (5/5 + 5)) \\
&:= 6 + ((6666 + 6)/6 + 6 \times 6 \times 66) \\
&:= 7 + (((7 \times (7 \times (77 - 7) + 7)) + 7/7) + 7) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - ((8 + 8)/8 + 88) \\
&:= 9 + (((9 - (9 + 9)/9) \times ((9 + 9)/9)^9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3495 &:= (1 + 1 + 1 + 1 + 11) \times (11 + (1 + 1) \times 111) \\
&:= 22/2 + (2 \times ((2 \times 22 - 2)^2 - 22)) \\
&:= (3 + 3) \times 3^3 + 3333 \\
&:= (4/4 + 4) \times ((444 - 4/4) + 4^4) \\
&:= 5^5 + ((5 \times (5 \times (5 + 5 + 5))) - 5) \\
&:= 6 + ((6 \times (666 - 66)) - 666/6) \\
&:= 7 + (((7 \times (7 \times (77 - 7) + 7)) + ((7 + 7)/7)) + 7) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - (8/8 + 88) \\
&:= 9 \times (9 + 9) + (9999 / ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3496 &:= (1 + 1) \times (((1 + 1) \times (11 - 1)) + ((1 + 11)^{1+1+1})) \\
&:= 2 \times ((2 \times 22 - 2)^2 - 2^{2+2}) \\
&:= 3/3 + ((3 + 3) \times 3^3 + 3333) \\
&:= 4 + (((4 + 4) \times (444 - (4 + 4))) + 4) \\
&:= 5^5 + (((5 \times (5 \times (5 + 5 + 5))) - 5) + 5/5) \\
&:= 66 + (((6 + 6)/6)^{6+6}) - 666 \\
&:= 77 + (7 \times 7 \times (77 - 7) - (77/7)) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - 88 \\
&:= (9 - 9/9) \times (((9 \times 9 \times 99 + 9)/(9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3497 &:= (11 \times (((1 + 1 + 1) \times (111 - 1)) - (1 + 11))) - 1 \\
&:= 2/2 + (2 \times ((2 \times 22 - 2)^2 - 2^{2+2})) \\
&:= ((3^3 + 3/3) \times ((3 - 3/3 + 3)^3)) - 3 \\
&:= 4 \times 4 + (((4^4 - 4)/4) - 4)^{(4+4)/4} \\
&:= 5 + (((5^5 - 5)/(5 + 5) + 5^5) + 55) \\
&:= (66 \times (66 - 6 - 6)) - (66 + 6/6) \\
&:= 7 + ((7 \times (7 \times (77 - 7) + 7)) + (77/7)) \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 - 8) - 88) \\
&:= 9 \times ((9 + 9)/9)^9 - 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3498 &:= 11 \times (((1 + 1 + 1) \times (111 - 1)) - (1 + 11)) \\
&:= (2^{2+2} \times (222 - 2)) - 22 \\
&:= 3 + ((3 + 3) \times 3^3 + 3333) \\
&:= 44/4 \times ((4^4 - 4 - 4)/4 + 4^4) \\
&:= 55/5 \times ((5^5 + 5)/(5 + 5) + 5) \\
&:= 66 \times ((66/6 + 6 \times 6) + 6) \\
&:= ((77 - 7) \times (7/7 + 7 \times 7)) - (7 + 7)/7 \\
&:= (8 + 8)/8 + (8 \times 8 \times (8 \times 8 - 8) - 88) \\
&:= 9 \times ((9 + 9)/9)^9 + ((9 - 9999)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3499 &:= (1 + 1)^{11} + ((11 \times (11 \times (1 + 11))) - 1) \\
&:= 2/2 + ((2^{2+2} \times (222 - 2)) - 22) \\
&:= 3 + (((3 + 3) \times 3^3 + 3333) + 3/3) \\
&:= 4 \times 4 + ((4 - 4/4)^4 \times (44 - 4/4)) \\
&:= 5^5 + ((5 \times (5 \times (5 + 5 + 5))) - 5/5) \\
&:= 6/6 + (66 \times ((66/6 + 6 \times 6) + 6)) \\
&:= ((77 - 7) \times (7/7 + 7 \times 7)) - 7/7 \\
&:= ((8 - 8/8) \times (8 \times 8 \times 8 - 88/8)) - 8 \\
&:= 9 + (((9 \times 99 + 9)/(9 + 9)) + 9)^{(9+9)/9} + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3500 &:= (1 + 1)^{11} + (11 \times (11 \times (1 + 11))) \\
&:= 2 + ((2^{2+2} \times (222 - 2)) - 22) \\
&:= (3^3 + 3/3) \times ((3 - 3/3 + 3)^3) \\
&:= (4/4 + 4) \times (444 + 4^4) \\
&:= 5^5 + (5 \times (5 \times (5 + 5 + 5))) \\
&:= (6 \times 6 - 6/6) \times (((6 + 6)/6)^6 + 6 \times 6) \\
&:= (77 - 7) \times (7/7 + 7 \times 7) \\
&:= (8 - 8/8) \times (8 \times 8 \times 8 - ((88 + 8)/8)) \\
&:= (9/9 + 9) \times (((9 + 9)/9)^9) - 9 \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3501 &:= 1 + ((1 + 1)^{11} + (11 \times (11 \times (1 + 11)))) \\
&:= 22 + (((2 \times (22 + 2)) + 22/2)^2) - 2 \\
&:= 3 \times ((3^3 \times (3 \times 3 + 33)) + 33) \\
&:= 4/4 + ((4/4 + 4) \times (444 + 4^4)) \\
&:= 5^5 + ((5 \times (5 \times (5 + 5 + 5))) + 5/5) \\
&:= ((6 \times 6 / (6 + 6))^6) + (66 \times (6 \times 6 + 6)) \\
&:= 7/7 + ((77 - 7) \times (7/7 + 7 \times 7)) \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 8)) - (88/8 + 8) \\
&:= 99 + ((9 + 9) \times ((99 + 9 \times 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3502 &:= 1 + (1 + ((1 + 1)^{11} + (11 \times (11 \times (1 + 11)))))) \\
&:= (2 \times ((2 \times 22 - 2)^2 - 2)) - 22 \\
&:= (3/3 + 33) \times ((3 \times 33 + 3/3) + 3) \\
&:= (4 \times (44 \times (4 \times 4 + 4) - 4)) - (4 + 4)/4 \\
&:= 5^5 + ((5 \times (5 \times (5 + 5 + 5))) + ((5 + 5)/5)) \\
&:= 6 + (((6 + 6)/6)^{6+6}) - 666 + 66 \\
&:= (7 + 7)/7 + ((77 - 7) \times (7/7 + 7 \times 7)) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) - ((8 + 8)/8 + 88)) \\
&:= 9/9 + (((9 + 9) \times ((99 + 9 \times 9) + 9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3503 &:= (1+1+111) \times (1 + ((11-1) \times (1+1+1))) \\
&:= 22 + (((2 \times (22+2)) + 22/2)^2) \\
&:= 3 + ((3^3 + 3/3) \times ((3-3/3+3)^3)) \\
&:= (4 \times (44 \times (4 \times 4 + 4) - 4)) - 4/4 \\
&:= 5 + (55/5 \times ((5^5 + 5)/(5+5) + 5)) \\
&:= 6 + ((66 \times (66-6-6)) - (66+6/6)) \\
&:= 7 + ((7 \times 7 \times (77-7) - (77/7)) + 77) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) - (8/8+88)) \\
&:= ((9 - (9+9)/9) \times ((9+9)/9)^9) - 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3504 &:= (1+1) \times ((1+11) \times (1 + (1 + (1+11)^{1+1}))) \\
&:= 2 \times (2 \times (2 \times ((2 \times (222-2)) - 2))) \\
&:= ((3+3)^3 + 3) \times (3^3 - 33/3) \\
&:= 4 \times (44 \times (4 \times 4 + 4) - 4) \\
&:= 5 + (((5 \times (5 \times (5+5+5))) - 5/5) + 5^5) \\
&:= 6 + (66 \times ((66/6 + 6 \times 6) + 6)) \\
&:= (7 \times 7 - 7/7) \times ((77 - 77/7) + 7) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) - 88) \\
&:= 9 + ((9999/(9+9+9)/9) + 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3505 &:= 1 + ((1+1) \times ((1+11) \times (1 + (1 + (1+11)^{1+1})))) \\
&:= (2 \times (2 \times 22 - 2)^2) - (22 + 2/2) \\
&:= 3 + ((3/3 + 33) \times ((3 \times 33 + 3/3) + 3)) \\
&:= 4/4 + (4 \times (44 \times (4 \times 4 + 4) - 4)) \\
&:= 5 + ((5 \times (5 \times (5+5+5))) + 5^5) \\
&:= (6 - 6/6) \times ((666 - 6/6) + 6 \times 6) \\
&:= 77 + (7 \times 7 \times (77 - 7) - ((7+7)/7)) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) - 88) + 8/8) \\
&:= 9 + ((9 - 9/9) \times (((9 \times 9 \times 99 + 9)/(9+9)) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3506 &:= (1+1) \times (1 + ((1+11) \times (1 + (1 + (1+11)^{1+1})))) \\
&:= (2 \times (2 \times 22 - 2)^2) - 22 \\
&:= 33 + (((33/3 + 3)^3) + 3^{3+3}) \\
&:= (4+4)/4 + (4 \times (44 \times (4 \times 4 + 4) - 4)) \\
&:= 5 + (((5 \times (5 \times (5+5+5))) + 5^5) + 5/5) \\
&:= 6 + ((6 \times 6 - 6/6) \times (((6+6)/6)^6 + 6 \times 6)) \\
&:= 77 + (7 \times 7 \times (77 - 7) - 7/7) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) - 88) + ((8+8)/8)) \\
&:= 9 \times 9 \times (9+9) + (((9+9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3507 &:= ((11111-1)/(1+1)) - (1+1)^{11} \\
&:= 2/2 + ((2 \times (2 \times 22 - 2)^2) - 22) \\
&:= 3 \times ((33/3)^3 - (3+3) \times 3^3) \\
&:= (4+4) \times 444 - (44+4/4) \\
&:= 5^5 + (5^5/5 - ((5 - (5+5)/5)^5)) \\
&:= 6 + (((6 \times 6/(6+6))^6) + (66 \times (6 \times 6 + 6))) \\
&:= 77 + 7 \times 7 \times (77 - 7) \\
&:= (8 - 8/8) \times (8 \times 8 \times 8 - 88/8) \\
&:= (9 - (9+9)/9) \times (((9+9)/9)^9) - (99/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3508 &:= ((1+11111)/(1+1)) - (1+1)^{11} \\
&:= 2 + ((2 \times (2 \times 22 - 2)^2) - 22) \\
&:= 3^3 + (((33 - 3/3) + 3^3)^{3-3/3}) \\
&:= (4+4) \times 444 - 44 \\
&:= 5 + ((55/5 \times ((5^5 + 5)/(5+5) + 5)) + 5) \\
&:= ((6 - 6/6) \times (666 + 6 \times 6)) - (6+6)/6 \\
&:= 7/7 + (7 \times 7 \times (77 - 7) + 77) \\
&:= ((8 \times 888) - 88)/(8+8)/8 \\
&:= ((9+9)/9) \times ((9+9) \times 99 - ((9/9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3509 &:= 11 \times (11 \times ((11-1) \times (1+1+1)) - 1) \\
&:= 22^2 + ((22/2 + 2 \times 22)^2) \\
&:= (33/3)^3 + (3 \times (3^{3+3} - 3)) \\
&:= 4/4 + ((4+4) \times 444 - 44) \\
&:= 5^5 + (((55+5)/5) \times ((5+5)/5)^5) \\
&:= ((6 - 6/6) \times (666 + 6 \times 6)) - 6/6 \\
&:= 77 + (7 \times 7 \times (77 - 7) + ((7+7)/7)) \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 8)) - 88/8 \\
&:= (((9+9)/9)^9) + 9 \times ((9+9) \times (9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3510 &:= 1 + (11 \times (11 \times ((11-1) \times (1+1+1)) - 1)) \\
&:= (2 \times ((2 \times 22 - 2)^2 + 2)) - 22 \\
&:= 3 \times (33 \times 33 + 3 \times 3^3) \\
&:= (4+4)/4 + ((4+4) \times 444 - 44) \\
&:= 5^5 + (55 \times ((5+5)/5 + 5)) \\
&:= (6 - 6/6) \times (666 + 6 \times 6) \\
&:= ((77 - 7)/7) \times ((7 \times 7 \times 7 + 7/7) + 7) \\
&:= (8 - 88)/8 + (8 \times (8 \times (8 \times 8 - 8) - 8)) \\
&:= 9 + (((9+9) \times ((99+9 \times 9) + 9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3511 &:= (1+1)^{11} + (11 \times (1 + (11 \times (1+11)))) \\
&:= 2 + (((22/2 + 2 \times 22)^2) + 22^2) \\
&:= 3/3 + (3 \times (33 \times 33 + 3 \times 3^3)) \\
&:= 4 + (4+4) \times 444 - (44+4/4) \\
&:= 5^5 + (555/5 + 5 \times 55) \\
&:= 6/6 + ((6 - 6/6) \times (666 + 6 \times 6)) \\
&:= 77/7 + ((77 - 7) \times (7/7 + 7 \times 7)) \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 8)) - (8/8+8) \\
&:= ((9 - 9/9) \times (((9+9)/9)^9) - 9 \times 9 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3512 &:= (1+1)^{11} + ((1+11) \times (1+11^{1+1})) \\
&:= 2 \times (2 \times (2 \times ((22-2/2)^2) - 2)) \\
&:= 3 + ((3 \times (3^{3+3} - 3)) + (33/3)^3) \\
&:= 4 + ((4+4) \times 444 - 44) \\
&:= 5^5 + ((555+5)/5 + 5 \times 55) \\
&:= (6+6)/6 + ((6-6/6) \times (666 + 6 \times 6)) \\
&:= 7 \times 7 \times 7 \times 7 + 7777/7 \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 8)) - 8 \\
&:= ((9 - (9+9)/9) \times (((9+9)/9)^9) - 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3513 &:= 1 + ((1+1)^{11} + ((1+11) \times (1+11^{1+1}))) \\
&:= (2 \times ((2 \times 22 - 2)^2 - 2)) - 22/2 \\
&:= 3 + (3 \times (33 \times 33 + 3 \times 3^3)) \\
&:= 4 + (((4+4) \times 444 - 44) + 4/4) \\
&:= 5^5 + ((555 + 5 + 5)/5 + 5 \times 55) \\
&:= 6 \times (6 \times 6 - 6) + 6666 \times 6/(6+6) \\
&:= 7 + ((7 \times 7 \times (77 - 7) - 7/7) + 77) \\
&:= 8/8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) - 8) \\
&:= 999/9 + ((9+9) \times ((99+9 \times 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3514 &:= 1 + (1 + ((1+1)^{11} + ((1+11) \times (1+11^{1+1})))) \\
&:= 2 + (2 \times (2 \times (2 \times (((22-2/2)^2) - 2)))) \\
&:= 3 + ((3 \times (33 \times 33 + 3 \times 3^3)) + 3/3) \\
&:= ((44-4)/4 + 4) \times (4^4 - 4/4 - 4) \\
&:= 5^5 + (5 \times (5 \times 5 + 55) - (55/5)) \\
&:= (((6+6)/6)^6 \times (66 - 66/6)) - 6 \\
&:= 7 + (7 \times 7 \times (77 - 7) + 77) \\
&:= (8+8)/8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) - 8) \\
&:= (9 - (9+9)/9) \times (((9+9)/9)^9) - (9/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3515 &:= 11 + ((1+1) \times ((1+11) \times (1 + (1 + (1+11)^{1+1})))) \\
&:= (2 \times (2 \times 22 - 2)^2) - (22/2 + 2) \\
&:= (33/3)^3 + (3 \times 3^{3+3} - 3) \\
&:= 44 + (((4+4)^4) - (4/4+4)^4) \\
&:= 5 + ((55 \times ((5+5)/5 + 5)) + 5^5) \\
&:= 6 \times 66 + (((6-6/6)^{6-6/6}) - 6) \\
&:= 7 + ((7 \times 7 \times (77 - 7) + 77) + 7/7) \\
&:= 8 + ((8 - 8/8) \times (8 \times 8 \times 8 - 88/8)) \\
&:= 9 + (((9+9)/9)^{99/9}) + 9 \times 9 \times (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3516 &:= (1+11) \times (1 + ((1+1) \times (1 + (1 + (1+11)^{1+1})))) \\
&:= 2 \times ((2 \times 22 - 2)^2 - (2 + 2 + 2)) \\
&:= (3+3)^3 + (3333 - 33) \\
&:= (4 \times 44 \times (4 \times 4 + 4)) - 4 \\
&:= 5 + ((555/5 + 5 \times 55) + 5^5) \\
&:= 6 + ((6 - 6/6) \times (666 + 6 \times 6)) \\
&:= (7 - 7/7) \times (7 \times (77 + 7) - ((7+7)/7)) \\
&:= ((8 \times (888 - 8)) - 8)/(8+8)/8 \\
&:= 9 + ((9 - (9+9)/9) \times (((9+9)/9)^9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3517 &:= (1+1)^{11} + ((1+1+11) \times (1+1+111)) \\
&:= (2 \times (2 \times 22 - 2)^2) - 22/2 \\
&:= (33/3)^3 + (3 \times 3^{3+3} - 3/3) \\
&:= 4/4 + ((4 \times 44 \times (4 \times 4 + 4)) - 4) \\
&:= 5^5 + (((5+5)/5 + 5) \times (55 + 5/5)) \\
&:= 6 \times 6 + ((66 - 6/6 - 6)^{(6+6)/6}) \\
&:= ((7 \times 7 - 7) \times (77 + 7)) - 77/7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) - (88/8)) \\
&:= ((99 - 9/9) \times ((9+9+9) + 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3518 &:= ((111-1) \times ((11 \times (1+1+1)) - 1)) - 1 - 1 \\
&:= (2^{2+2} \times (222-2)) - 2 \\
&:= (33/3)^3 + 3 \times 3^{3+3} \\
&:= (4 \times 44 \times (4 \times 4 + 4)) - (4+4)/4 \\
&:= 5 \times 5 + ((5^5+5)/(5+5) + 5^5) + 55 \\
&:= 6 + (((6-6/6) \times (666+6 \times 6)) + ((6+6)/6)) \\
&:= 77 + (7 \times 7 \times (77-7) + (77/7)) \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 8)) - (8+8)/8 \\
&:= 9 + (9 \times ((9+9) \times (9+9) + 9) + ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3519 &:= ((111-1) \times ((11 \times (1+1+1)) - 1)) - 1 \\
&:= (2^{2+2} \times (222-2)) - 2/2 \\
&:= 3 \times ((33 \times 33 + 3 \times 3^3) + 3) \\
&:= (4 \times 44 \times (4 \times 4 + 4)) - 4/4 \\
&:= 5^5 + ((5-5/5)^5 - (5^5/5+5)) \\
&:= (6 \times 6/(6+6) + 6) \times ((6 \times 66 - 6) + 6/6) \\
&:= 7 + (7777/7 + 7 \times 7 \times 7 \times 7) \\
&:= (8 \times (8 \times (8 \times 8 - 8) - 8)) - 8/8 \\
&:= 9 \times (((99/9+9)^{(9+9)/9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3520 &:= (111-1) \times ((11 \times (1+1+1)) - 1) \\
&:= 2^{2+2} \times (222-2) \\
&:= (33-3/3) \times ((333-3)/3) \\
&:= 4 \times 44 \times (4 \times 4 + 4) \\
&:= 5^5 + (5 \times (5 \times 5 + 55) - 5) \\
&:= ((6+6)/6)^6 \times (66-66/6) \\
&:= ((7 \times 7 - 7) \times (77+7)) - (7/7+7) \\
&:= 8 \times (8 \times (8 \times 8 - 8) - 8) \\
&:= (9-9/9) \times (((((9+9)/9)^9) - 9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3521 &:= 1 + ((111-1) \times ((11 \times (1+1+1)) - 1)) \\
&:= 2/2 + (2^{2+2} \times (222-2)) \\
&:= 3 + ((33/3)^3 + 3 \times 3^{3+3}) \\
&:= 4/4 + (4 \times 44 \times (4 \times 4 + 4)) \\
&:= 5^5 + ((5 \times (5 \times 5 + 55) - 5) + 5/5) \\
&:= 6 \times 66 + ((6-6/6)^{6-6/6}) \\
&:= ((7 \times 7 - 7) \times (77+7)) - 7 \\
&:= 8/8 + (8 \times (8 \times (8 \times 8 - 8) - 8)) \\
&:= (9 - (9+9)/9) \times (((9+9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3522 &:= 1 + (1 + ((111-1) \times ((11 \times (1+1+1)) - 1))) \\
&:= 2 + (2^{2+2} \times (222-2)) \\
&:= (3+3) \times (((3 \times 3 + 3)^3 + 33)/3) \\
&:= (4+4)/4 + (4 \times 44 \times (4 \times 4 + 4)) \\
&:= (5/5+5) \times (((5+5)/5)^5 + 555) \\
&:= 66 + (6 \times (6 \times (6 \times 6 - 6 + 66))) \\
&:= 7/7 + (((7 \times 7 - 7) \times (77+7)) - 7) \\
&:= (8+8)/8 + (8 \times (8 \times (8 \times 8 - 8) - 8)) \\
&:= 9/9 + ((9 - (9+9)/9) \times (((9+9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3523 &:= 1 + (1 + (1 + ((111-1) \times ((11 \times (1+1+1)) - 1)))) \\
&:= (2 \times ((2 \times 22 - 2)^2 - 2)) - 2/2 \\
&:= 3 + ((33-3/3) \times ((333-3)/3)) \\
&:= 4 + ((4 \times 44 \times (4 \times 4 + 4)) - 4/4) \\
&:= 5^5 + ((5-5/5)^5 - (5^5+5)/5) \\
&:= 6 \times (6 \times 66 + 6) + (6666/6) \\
&:= (7+7)/7 + (((7 \times 7 - 7) \times (77+7)) - 7) \\
&:= 88/8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) - 8) \\
&:= 9 + (9 - (9-9)/9) \times (((9+9)/9)^9) - (9/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3524 &:= (1+1) \times (((1+1) \times (11 + (11-1)))^{1+1}) - (1+1) \\
&:= 2 \times ((2 \times 22 - 2)^2 - 2) \\
&:= 3 + (((33/3)^3 + 3 \times 3^{3+3}) + 3) \\
&:= 4 + (4 \times 44 \times (4 \times 4 + 4)) \\
&:= 5^5 + ((5-5/5)^5 - 5^5/5) \\
&:= 6 \times (6 \times 66 + 6) + (6666+6)/6 \\
&:= 7 + (((7 \times 7 - 7) \times (77+7)) - (77/7)) \\
&:= ((8 \times (888-8)) + 8)/((8+8)/8) \\
&:= ((9+9)/9) \times ((9+9) \times 99 - (99/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3525 &:= ((1+1) \times (((1+1) \times (11 + (11-1)))^{1+1}) - 1) - 1 \\
&:= 2/2 + (2 \times ((2 \times 22 - 2)^2 - 2)) \\
&:= 3333 + (3 \times ((3/3+3)^3)) \\
&:= 4 + ((4 \times 44 \times (4 \times 4 + 4)) + 4/4) \\
&:= 5^5 + 5 \times (5 \times 5 + 55) \\
&:= (6-6/6) \times (((66 \times ((6+6)/6)^6) + 6)/6) \\
&:= (7 \times 7 - (7+7)/7) \times (77 - (7+7)/7) \\
&:= ((8-88/8) + 8) \times (8 \times 88 + 8/8) \\
&:= (9 \times ((9+9) \times (9+9) + 9 \times 9)) - (999/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3526 &:= (1+1) \times (((1+1) \times (11 + (11-1)))^{1+1}) - 1 \\
&:= (2 \times (2 \times 22 - 2)^2) - 2 \\
&:= (((3 \times (3+3)) + 3/3)^3) - 3333 \\
&:= 4 + ((4 \times 44 \times (4 \times 4 + 4)) + (4+4)/4) \\
&:= 5^5 + (5 \times (5 \times 5 + 55) + 5/5) \\
&:= 6 + (((6+6)/6)^6 \times (66-66/6)) \\
&:= ((7 \times 7 - 7) \times (77+7)) - (7+7)/7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) - ((8+8)/8)) \\
&:= ((9+9)/9) \times ((9+9) \times 99 - (9/9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3527 &:= ((1+1) \times (((1+1) \times (11 + (11-1)))^{1+1}) - 1) \\
&:= (2 \times (2 \times 22 - 2)^2) - 2/2 \\
&:= (33/3)^3 + (3 \times (3^{3+3} + 3)) \\
&:= 4 + (((4 \times 44 \times (4 \times 4 + 4)) - 4/4) + 4) \\
&:= 5^5 + (5 \times (5 \times 5 + 55) + ((5+5)/5)) \\
&:= 6 + (((6-6/6)^{6-6/6}) + 6 \times 66) \\
&:= ((7 \times 7 - 7) \times (77+7)) - 7/7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) - 8/8) \\
&:= ((99-9/9) \times ((9+9+9) + 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3528 &:= (1+1) \times (((1+1) \times (11 + (11-1)))^{1+1}) \\
&:= 2 \times (2 \times 22 - 2)^2 \\
&:= (3 \times 3 + 3) \times (3 \times 3 \times 33 - 3) \\
&:= 4 + ((4 \times 44 \times (4 \times 4 + 4)) + 4) \\
&:= (55 + 5/5) \times (5^5/5 + 5)/(5+5) \\
&:= 6 \times (666 - (66+6+6)) \\
&:= (7 \times 7 - 7) \times (77+7) \\
&:= 8 + (8 \times (8 \times (8 \times 8 - 8) - 8)) \\
&:= (99-9/9) \times ((9+9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3529 &:= 1 + ((1+1) \times (((1+1) \times (11 + (11-1)))^{1+1})) \\
&:= 2/2 + (2 \times (2 \times 22 - 2)^2) \\
&:= 3/3 + ((3 \times 3 + 3) \times (3 \times 3 \times 33 - 3)) \\
&:= 4 + (((4 \times 44 \times (4 \times 4 + 4)) + 4/4) + 4) \\
&:= 5 + (((5-5/5)^5 - 5^5/5) + 5^5) \\
&:= 6/6 + (6 \times (666 - (66+6+6))) \\
&:= 7/7 + ((7 \times 7 - 7) \times (77+7)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) + 8/8) \\
&:= 9/9 + ((99-9/9) \times ((9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3530 &:= (11^{1+1+1+1}) - 11111 \\
&:= 2 + (2 \times (2 \times 22 - 2)^2) \\
&:= 3 + ((3 \times (3^{3+3} + 3)) + (33/3)^3) \\
&:= (4+4)/4 \times (4 \times 444 - 44/4) \\
&:= 5 + (5 \times (5 \times 5 + 55) + 5^5) \\
&:= (6+6)/6 + (6 \times (666 - (66+6+6))) \\
&:= (7+7)/7 + ((7 \times 7 - 7) \times (77+7)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) + ((8+8)/8)) \\
&:= 9 + ((9 - (9+9)/9) \times (((9+9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3531 &:= 11 \times ((1+1+1) \times 111 - (1+11)) \\
&:= 2 + ((2 \times (2 \times 22 - 2)^2) + 2/2) \\
&:= 33 \times ((3 \times (33+3)) - 3/3) \\
&:= 44/4 + (4 \times 44 \times (4 \times 4 + 4)) \\
&:= 5 + ((5 \times (5 \times 5 + 55) + 5^5) + 5/5) \\
&:= (6666 + 6 \times 66)/((6+6)/6) \\
&:= (7+7+7)/7 + ((7 \times 7 - 7) \times (77+7)) \\
&:= 88/8 + (8 \times (8 \times (8 \times 8 - 8) - 8)) \\
&:= 99/9 \times ((9+9) \times (9+9) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3532 &:= 1 + (11 \times ((1+1+1) \times 111 - (1+11))) \\
&:= 2 \times ((2 \times 22 - 2)^2 + 2) \\
&:= 3/3 + (33 \times (3+3) + 3333) \\
&:= (4+4) \times 444 - 4 \times 4 - 4 \\
&:= 5^5 + (55/5 \times (((5+5)/5)^5 + 5)) \\
&:= 6 + (((6+6)/6)^6 \times (66-66/6)) + 6) \\
&:= 77/7 + (((7 \times 7 - 7) \times (77+7)) - 7) \\
&:= 8 + (((8 \times (888-8)) + 8)/((8+8)/8)) \\
&:= ((9 \times 9 - 9)/(9+9)) \times ((9 \times 99 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3533 &:= 1 + (1 + (11 \times ((1 + 1 + 1) \times 111 - (1 + 11)))) \\
&:= 2/2 + (2 \times ((2 \times 22 - 2)^2 + 2)) \\
&:= 3 + (((3 \times (3^{3+3} + 3)) + (33/3)^3) + 3) \\
&:= 4/4 + ((4 + 4) \times 444 - (4 \times 4 + 4)) \\
&:= 5 + ((55 + 5/5) \times (5^5/5 + 5)/(5 + 5)) \\
&:= (6 \times (666 - 66)) - (66 + 6/6) \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) - ((7 + 7)/7)) \\
&:= 8 + (((8 - 88/8) + 8) \times (8 \times 88 + 8/8)) \\
&:= ((99/9) \times (9 + 9) \times (9 + 9) - (9 + 9)/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3534 &:= (1 + 1 + 1) \times (1 + (11 \times (111 - (1 + 1 + 1 + 1)))) \\
&:= 2 + (2 \times ((2 \times 22 - 2)^2 + 2)) \\
&:= 3 + (33 \times (3 + 3) + 3333) \\
&:= (4 + 4) \times 444 - ((4 + 4)/4 + 4 \times 4) \\
&:= (5/5 + 5) \times (((5^5 - 55)/5) - 5 \times 5) \\
&:= (6 \times (666 - 66)) - 66 \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) - 7/7) \\
&:= ((8/8 - 8) + 8 \times 8) \times (8 \times 8 - ((8 + 8)/8)) \\
&:= (9 \times ((9 + 9) \times (9 + 9) + 9 \times 9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3535 &:= ((1 + 1)^{1+11}) - ((11 + 1111)/(1 + 1)) \\
&:= 2 + ((2 \times ((2 \times 22 - 2)^2 + 2)) + 2/2) \\
&:= 3 + ((33 \times (3 + 3) + 3333) + 3/3) \\
&:= (4 \times 4 \times (4^4 + 4)) - (4/4 + 4)^4 \\
&:= 5 + ((5 \times (5 \times 5 + 55) + 5^5) + 5) \\
&:= 6/6 + ((6 \times (666 - 66)) - 66) \\
&:= 7 + ((7 \times 7 - 7) \times (77 + 7)) \\
&:= (8 - 8/8) \times ((8 \times 8 \times 8 - 8) + 8/8) \\
&:= ((9 + 9)/9 + 99) \times (((9 - 9/9) + 9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3536 &:= (1 + 1)^{1+1+1+1} \times ((1 + 1) \times 111 - 1) \\
&:= 2 \times (((2 \times 22 - 2)^2 + 2) + 2) \\
&:= (33/3)^3 + (3 \times ((3^{3+3} + 3) + 3)) \\
&:= 4 \times (44 \times (4 \times 4 + 4) + 4) \\
&:= 55 + ((55 - 5/5 + 5)^{(5+5)/5}) \\
&:= (6 \times (666 - 66)) - ((6 + 6)/6)^6 \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) + 7/7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) + 8) \\
&:= 9 + (((99 - 9/9) \times ((9 + 9 + 9) + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3537 &:= ((11 \times (1 + 11)) - 1) \times (1 + 1 + 1)^{1+1+1} \\
&:= 2/2 + (2 \times (((2 \times 22 - 2)^2 + 2) + 2)) \\
&:= 3 \times (3 \times ((33 \times (3 \times 3 + 3)) - 3)) \\
&:= 4/4 + (4 \times (44 \times (4 \times 4 + 4) + 4)) \\
&:= 5 + ((55/5 \times (((5 + 5)/5)^5 + 5)) + 5^5) \\
&:= 6 + ((6666 + 6 \times 66)/(6 + 6)/6) \\
&:= 7 + (7 \times 7 - 7) \times (77 + 7) + (7 + 7)/7 \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8) - 8)) + 8/8) + 8) \\
&:= 9 + ((99 - 9/9) \times ((9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3538 &:= (1 + 11^{1+1}) \times (((11 - 1) \times (1 + 1 + 1)) - 1) \\
&:= 2 + (2 \times (((2 \times 22 - 2)^2 + 2) + 2)) \\
&:= 3/3 + (3 \times (3 \times ((33 \times (3 \times 3 + 3)) - 3))) \\
&:= (4 + 4)/4 + (4 \times (44 \times (4 \times 4 + 4) + 4)) \\
&:= 5^5 + ((5^5 + 5)/(5 + 5) + 5 \times (5 \times 5 - 5)) \\
&:= (((6 + 6)/6)^6 - 6) \times (66 - 6 + 6/6) \\
&:= ((77 - 7)/7) + ((7 \times 7 - 7) \times (77 + 7)) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8) - 8)) + ((8 + 8)/8)) + 8) \\
&:= 9 + (((99 - 9/9) \times ((9 + 9 + 9) + 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3539 &:= 1 + ((1 + 11^{1+1}) \times (((11 - 1) \times (1 + 1 + 1)) - 1)) \\
&:= 22/2 + (2 \times (2 \times 22 - 2)^2) \\
&:= (33/3 \times (333 - 33/3)) - 3 \\
&:= 4 + ((4 \times 4 \times (4^4 + 4)) - (4/4 + 4)^4) \\
&:= 55 \times 55 + (5^5 - 555)/5 \\
&:= ((6 - 66) \times ((6/6 - 66) + 6)) - 6/6 \\
&:= 77/7 + ((7 \times 7 - 7) \times (77 + 7)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) - 8)) + (88/8)) \\
&:= 9 + (((9 - (9 + 9)/9) \times (((9 + 9)/9)^9) - 9)) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3540 &:= ((1 + 1)^{1+11}) - ((1 + 1111)/(1 + 1)) \\
&:= 2 \times (((2 \times 22 - 2)^2 + 2) + 2) + 2 \\
&:= 3 + (3 \times (3 \times ((33 \times (3 \times 3 + 3)) - 3))) \\
&:= 4 + (4 \times (44 \times (4 \times 4 + 4) + 4)) \\
&:= (55 + 5) \times (55 - 5/5 + 5) \\
&:= (6 - 66) \times ((6/6 - 66) + 6) \\
&:= (7 - 7/7) \times (7 \times (77 + 7) + ((7 + 7)/7)) \\
&:= (((8 \times 888) - 8)/(8 + 8)/8) - 8 \\
&:= (9/9 + 9) \times (9 \times (9 + 9 + 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3541 &:= (111 \times ((11 \times (1 + 1 + 1)) - 1)) - 11 \\
&:= (2^{2+2} \times 222) - 22/2 \\
&:= ((333 \times (33 - 3/3)) - 33)/3 \\
&:= (4 + 4) \times 444 - 44/4 \\
&:= (5 - 5/5)^{5/5+5} - 555 \\
&:= 6/6 + ((6 - 66) \times ((6/6 - 66) + 6)) \\
&:= 777/7 + 7 \times 7 \times (77 - 7) \\
&:= (8 \times 888/(8 + 8)/8) - 88/8 \\
&:= 9999/9 + (9 \times 9 + 9) \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3542 &:= 11 \times ((1 + 1 + 1) \times 111 - 11) \\
&:= 22 + (2^{2+2} \times (222 - 2)) \\
&:= 33/3 \times (333 - 33/3) \\
&:= (4 - 44)/4 + (4 + 4) \times 444 \\
&:= 5^5 + ((5^5 + 5^5 + 5)/(5 + 5 + 5)) \\
&:= 6 + ((6 \times (666 - 66)) - ((6 + 6)/6)^6) \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) + 7) \\
&:= (8 - 8/8) \times (((8 + 8)/8) - 8) + 8 \times 8 \times 8 \\
&:= 99/9 \times ((9 + 9) \times (9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3543 &:= 1 + (11 \times ((1 + 1 + 1) \times 111 - 11)) \\
&:= 2 + ((2^{2+2} \times 222) - 22/2) \\
&:= (3 + 3)^3 + (3333 - (3 + 3)) \\
&:= (4 + 4) \times 444 - (4/4 + 4 + 4) \\
&:= ((5 - (5 + 5)/5)^5) + 55 \times (55 + 5) \\
&:= 6 \times 6 \times 6 + (6666 \times 6/(6 + 6) - 6) \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) + 7/7) + 7 \\
&:= 8 + ((8 - 8/8) \times ((8 \times 8 \times 8 - 8) + 8/8)) \\
&:= ((9 + 9) \times (99 + 99)) - ((99 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3544 &:= 1 + (1 + (11 \times ((1 + 1 + 1) \times 111 - 11))) \\
&:= 2 \times (2 \times (2 \times 2 \times 222 - 2)) \\
&:= (3 \times ((33 \times (33 + 3)) - 3)) - 33/3 \\
&:= (4 + 4) \times (444 - 4/4) \\
&:= ((55 + 5)^{(5+5)/5}) - (55 + 5/5) \\
&:= 6 + (((6 + 6)/6)^6 - 6) \times (66 - 6 + 6/6) \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) + ((7 + 7)/7)) + 7 \\
&:= (8 \times 888/(8 + 8)/8) - 8 \\
&:= ((9 + 9)/9) \times ((9 + 9) \times 99 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3545 &:= 1 + (1 + (1 + (11 \times ((1 + 1 + 1) \times 111 - 11)))) \\
&:= 2/2 + (2 \times (2 \times (2 \times 2 \times 222 - 2))) \\
&:= 3 + (33/3 \times (333 - 33/3)) \\
&:= 4 + ((4 + 4) \times 444 - 44/4) \\
&:= ((55 + 5)^{(5+5)/5}) - 55 \\
&:= 6 + (((6 - 66) \times ((6/6 - 66) + 6)) - 6/6) \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) + ((77 - 7)/7)) \\
&:= 8/8 + ((8 \times 888/(8 + 8)/8) - 8) \\
&:= ((9 + 9) \times (99 + 99)) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3546 &:= ((1 + 1)^{1+11}) - ((1111 - 11)/(1 + 1)) \\
&:= 2 + (2 \times (2 \times (2 \times 2 \times 222 - 2))) \\
&:= 3 \times ((33 \times (33 + 3)) - (3 + 3)) \\
&:= (4 + 4) \times 444 - ((4 + 4)/4 + 4) \\
&:= 5 + ((5 - 5/5)^{5/5+5} - 555) \\
&:= 6 + ((6 - 66) \times ((6/6 - 66) + 6)) \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) + (77/7)) \\
&:= (8 + 8)/8 + ((8 \times 888/(8 + 8)/8) - 8) \\
&:= (9 + 9) \times ((99 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3547 &:= ((11 + (11 - 1)) \times (1 + 1 + 11)^{1+1}) - 1 - 1 \\
&:= (2^{2+2} \times 222) - (2/2 + 2 + 2) \\
&:= 3/3 + ((3333 - 3) + (3 + 3)^3) \\
&:= (4 + 4) \times 444 - (4/4 + 4) \\
&:= (((5 + 5)/5)^5 \times 555/5) - 5 \\
&:= 66 + ((66 - 6/6 - 6)^{(6+6)/6}) \\
&:= 7 \times (7 \times 77 - 7 - 7) - ((7 + 7)/7)^7 \\
&:= (((8 \times 888) - 8)/(8 + 8)/8) - 8/8 \\
&:= 9/9 + ((9 + 9) \times ((99 - 9/9) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3548 &:= ((11 + (11 - 1)) \times (1 + 1 + 11)^{1+1}) - 1 \\
&:= 2 \times ((2 \times 2 \times 2 \times 222) - 2) \\
&:= (3 + 3)^3 + (3333 - 3/3) \\
&:= (4 + 4) \times 444 - 4 \\
&:= 5 + (((5 - (5 + 5)/5)^5) + 55 \times (55 + 5)) \\
&:= (6 - 66)/6 + ((66 \times (66 - 6 - 6)) - 6) \\
&:= 7 + (7 \times 7 \times (77 - 7) + 777/7) \\
&:= ((8 \times 888) - 8)/((8 + 8)/8) \\
&:= ((9 + 9)/9) \times (((9 + 9) \times 99 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3549 &:= (11 + (11 - 1)) \times (1 + 1 + 11)^{1+1} \\
&:= (22 - 2/2) \times ((22/2 + 2)^2) \\
&:= (3 + 3)^3 + 3333 \\
&:= 4/4 + ((4 + 4) \times 444 - 4) \\
&:= 5^5 + ((5 - 5/5) \times (555/5 - 5)) \\
&:= 6 \times 6 \times 6 + 6666 \times 6/(6 + 6) \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) + 7) + 7 \\
&:= 8/8 + (((8 \times 888) - 8)/((8 + 8)/8)) \\
&:= 9 + ((9/9 + 9) \times (9 \times (9 + 9 + 9) + 999/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3550 &:= (111 \times ((11 \times (1 + 1 + 1)) - 1)) - 1 - 1 \\
&:= (2^{2+2} \times 222) - 2 \\
&:= 3/3 + (3333 + (3 + 3)^3) \\
&:= (4 + 4) \times 444 - (4 + 4)/4 \\
&:= 5^5 + (5 \times (5 \times 5 + 55 + 5)) \\
&:= (6 - 6/6) \times (((66/6) \times ((6 + 6)/6)^6) + 6) \\
&:= (7/7 + 7 \times 7) \times ((7/7 - 7) + 77) \\
&:= (8 \times 888)/((8 + 8)/8) - (8 + 8)/8 \\
&:= (9/9 + 9) \times (((9 + 9)/9)^{9-9/9}) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3551 &:= (111 \times ((11 \times (1 + 1 + 1)) - 1)) - 1 \\
&:= (2^{2+2} \times 222) - 2/2 \\
&:= ((333 \times (33 - 3/3)) - 3)/3 \\
&:= (4 + 4) \times 444 - 4/4 \\
&:= 5^5 + ((5 \times (5 \times 5 + 55 + 5)) + 5/5) \\
&:= (66 + 6/6) \times ((66/6 + 6 \times 6) + 6) \\
&:= ((7 + 7)/7)^7 + (7 \times 7 \times (77 - 7) - 7) \\
&:= (8 \times 888)/((8 + 8)/8) - 8/8 \\
&:= 9 + ((99/9) \times ((9 + 9) \times (9 + 9) - ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3552 &:= 111 \times ((11 \times (1 + 1 + 1)) - 1) \\
&:= 2^{2+2} \times 222 \\
&:= 3 + (3333 + (3 + 3)^3) \\
&:= (4 + 4) \times 444 \\
&:= ((5 + 5)/5)^5 \times 555/5 \\
&:= (66 \times (66 - 6 - 6)) - 6 - 6 \\
&:= (7 \times 7 - 7/7) \times (77 - ((7 + 7 + 7)/7)) \\
&:= 8 \times 888/((8 + 8)/8) \\
&:= ((9 + 9) \times (99 + 99)) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3553 &:= 1 + (111 \times ((11 \times (1 + 1 + 1)) - 1)) \\
&:= 2/2 + (2^{2+2} \times 222) \\
&:= (3 \times (33 \times (33 + 3))) - 33/3 \\
&:= 4/4 + (4 + 4) \times 444 \\
&:= 5/5 + (((5 + 5)/5)^5 \times 555/5) \\
&:= (66 \times (66 - 6 - 6)) - 66/6 \\
&:= 7 + (((7 \times 7 - 7) \times (77 + 7)) + (77/7)) + 7 \\
&:= 8/8 + (8 \times 888/((8 + 8)/8)) \\
&:= 99/9 \times ((9 + 9) \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3554 &:= 1 + (1 + (111 \times ((11 \times (1 + 1 + 1)) - 1))) \\
&:= 2 + (2^{2+2} \times 222) \\
&:= (3 \times ((33 \times (33 + 3)) - 3)) - 3/3 \\
&:= (4 + 4)/4 + (4 + 4) \times 444 \\
&:= 5^5 + (555 - (5 \times 5 \times 5 + 5/5)) \\
&:= (6 - 66)/6 + (66 \times (66 - 6 - 6)) \\
&:= 7 + (7 \times (7 \times 77 - 7 - 7) - ((7 + 7)/7)^7) \\
&:= (8 + 8)/8 + (8 \times 888/((8 + 8)/8)) \\
&:= ((9 + 9) \times (99 + 99)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3555 &:= 1 + (1 + (1 + (111 \times ((11 \times (1 + 1 + 1)) - 1)))) \\
&:= 2 + ((2^{2+2} \times 222) + 2/2) \\
&:= 3 \times ((33 \times (33 + 3)) - 3) \\
&:= 4 + ((4 + 4) \times 444 - 4/4) \\
&:= 5^5 + (555 - 5 \times 5 \times 5) \\
&:= (6 \times 6/(6 + 6) + 6) \times (6 \times 66 - 6/6) \\
&:= 77 + ((7 \times (7 \times (77 - 7) + 7)) - 7/7) \\
&:= ((8 \times 888 + 8)/((8 + 8)/8)) - 8/8 \\
&:= ((9 + 9) \times (99 + 99)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3556 &:= 1 + (1 + (1 + (1 + (111 \times ((11 \times (1 + 1 + 1)) - 1)))))) \\
&:= 2 + ((2^{2+2} \times 222) + 2) \\
&:= 3/3 + (3 \times ((33 \times (33 + 3)) - 3)) \\
&:= 4 + (4 + 4) \times 444 \\
&:= 5^5 + ((555 - 5 \times 5 \times 5) + 5/5) \\
&:= (66 \times (66 - 6 - 6)) - ((6 + 6)/6 + 6) \\
&:= 77 + (7 \times (7 \times (77 - 7) + 7)) \\
&:= (8 \times 888 + 8)/((8 + 8)/8) \\
&:= 9/9 + (((9 + 9) \times (99 + 99)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3557 &:= 1111 + ((1 + 1) \times (1 + (1 + 11 \times 111))) \\
&:= 2 + (((2^{2+2} \times 222) + 2/2) + 2) \\
&:= 3 + ((3 \times ((33 \times (33 + 3)) - 3)) - 3/3) \\
&:= 4 + ((4 + 4) \times 444 + 4/4) \\
&:= 5 + (((5 + 5)/5)^5 \times 555/5) \\
&:= (66 \times (66 - 6 - 6)) - 6/6 - 6 \\
&:= 7 + ((7/7 + 7 \times 7) \times ((7/7 - 7) + 77)) \\
&:= 8/8 + ((8 \times 888 + 8)/((8 + 8)/8)) \\
&:= (9 + 9)/9 + (((9 + 9) \times (99 + 99)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3558 &:= (1 + 1 + 1) \times ((11 \times (111 - 1 - 1 - 1)) - (1 + 1)) \\
&:= 2 + (((2^{2+2} \times 222) + 2) + 2) \\
&:= 3 + (3 \times ((33 \times (33 + 3)) - 3)) \\
&:= 4 + ((4 + 4) \times 444 + (4 + 4)/4) \\
&:= (5/5 + 5) \times (5^5/5 - ((5 + 5)/5)^5) \\
&:= (66 \times (66 - 6 - 6)) - 6 \\
&:= ((7 + 7)/7)^7 + 7 \times 7 \times (77 - 7) \\
&:= 8 + ((8 \times 888)/((8 + 8)/8)) - ((8 + 8)/8) \\
&:= ((9 + 9)/9) \times ((9 + 9) \times 99 - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3559 &:= 1 + ((1 + 1 + 1) \times ((11 \times (111 - 1 - 1 - 1)) - (1 + 1))) \\
&:= (2 \times (2 \times (2 \times 2 \times 222 + 2))) - 2/2 \\
&:= 3 + ((3 \times ((33 \times (33 + 3)) - 3)) + 3/3) \\
&:= 4 + (((4 + 4) \times 444 - 4/4) + 4) \\
&:= 55 \times (55 + 5 + 5) - (55/5 + 5) \\
&:= 6/6 + ((66 \times (66 - 6 - 6)) - 6) \\
&:= (7 \times (7 + 7) \times (7 + 7)) + ((7 + 7 + 7)/7)^7 \\
&:= 8 + ((8 \times 888)/((8 + 8)/8)) - 8/8 \\
&:= ((9 - 99)/(9 + 9)) + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3560 &:= 11 + ((11 + (11 - 1)) \times (1 + 1 + 11)^{1+1}) \\
&:= 2 \times (2 \times (2 \times 2 \times 222 + 2)) \\
&:= (3/3 + 3) \times ((33 \times 3^3) - 3/3) \\
&:= 4 + ((4 + 4) \times 444 + 4) \\
&:= 5 + ((555 - 5 \times 5 \times 5) + 5^5) \\
&:= (6 + 6)/6 + ((66 \times (66 - 6 - 6)) - 6) \\
&:= ((77 - 7)/7) \times (((7 \times 7 \times 7 - 7/7) + 7) + 7) \\
&:= 8 + (8 \times 888/((8 + 8)/8)) \\
&:= (9 - 9/9) \times ((9 \times 9 \times 99 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3561 &:= (1 + 1 + 1) \times ((11 \times (111 - 1 - 1 - 1)) - 1) \\
&:= 2/2 + (2 \times (2 \times (2 \times 2 \times 222 + 2))) \\
&:= (3 \times (33 \times (33 + 3))) - 3 \\
&:= 4 + (((4 + 4) \times 444 + 4/4) + 4) \\
&:= 5 + (((555 - 5 \times 5 \times 5) + 5^5) + 5/5) \\
&:= (66 \times (66 - 6 - 6)) - 6 \times 6/(6 + 6) \\
&:= 7777/7 + 7 \times (7 \times 7 \times 7 + 7) \\
&:= 8 + ((8 \times 888)/((8 + 8)/8)) + 8/8 \\
&:= ((99 \times (99 + 9)) - 9)/((9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3562 &:= 11 + ((111 \times ((11 \times (1 + 1 + 1)) - 1)) - 1) \\
&:= 2 + (2 \times (2 \times (2 \times 2 \times 222 + 2))) \\
&:= 3/3 + ((3 \times (33 \times (33 + 3))) - 3) \\
&:= (44 - 4)/4 + (4 + 4) \times 444 \\
&:= 5 + (((5 + 5)/5)^5 \times 555/5) + 5 \\
&:= (66 \times (66 - 6 - 6)) - (6 + 6)/6 \\
&:= 7 + (((7 \times (7 \times (77 - 7) + 7)) - 7/7) + 77) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - (88 + 88)/8 \\
&:= ((9 + 9)/9) \times ((9 + 9) \times 99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3563 &:= 11 + (111 \times ((11 \times (1 + 1 + 1)) - 1)) \\
&:= 22/2 + (2^{2+2} \times 222) \\
&:= (3 \times (33 \times (33 + 3))) - 3/3 \\
&:= 44/4 + (4 + 4) \times 444 \\
&:= 5^5 + ((5^5 + 5)/(5 + 5) + 5 \times 5 \times 5) \\
&:= (66 \times (66 - 6 - 6)) - 6/6 \\
&:= 7 + ((7 \times (7 \times (77 - 7) + 7)) + 77) \\
&:= 88/8 + (8 \times 888/((8 + 8)/8)) \\
&:= (9 + 9) \times (99 + 99) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3564 &:= (1 + 1 + 1) \times ((11 \times (1 + 1 + 1))^{1+1} - 1) \\
&:= 2 \times (22 \times (2/2 + 2)^{2+2}) \\
&:= 3 \times (33 \times (33 + 3)) \\
&:= 44 \times (4 - 4/4)^4 \\
&:= (55 - 5/5) \times (55/5 + 55) \\
&:= 66 \times (66 - 6 - 6) \\
&:= (7 - 7/7) \times ((7 \times (77 + 7) - 7/7) + 7) \\
&:= 8 + ((8 \times 888 + 8)/((8 + 8)/8)) \\
&:= (9 + 9) \times (99 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3565 &:= 11 \times 11 \times (1 + 1 + 1)^{1+1+1} - 1 - 1 \\
&:= ((22 \times ((2^{2+2} + 2)^2)) + 2)/2 \\
&:= 3/3 + (3 \times (33 \times (33 + 3))) \\
&:= 4/4 + (44 \times (4 - 4/4)^4) \\
&:= 55 \times (55 + 5 + 5) - 5 - 5 \\
&:= 6/6 + (66 \times (66 - 6 - 6)) \\
&:= 7 + (7 \times 7 \times (77 - 7) + ((7 + 7)/7)^7) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - (88/8 + 8) \\
&:= 9/9 + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3566 &:= 11 \times 11 \times (1 + 1 + 1)^{1+1+1} - 1 \\
&:= 2 + (2 \times (22 \times (2/2 + 2)^{2+2})) \\
&:= 3 + ((3 \times (33 \times (33 + 3))) - 3/3) \\
&:= (4 + 4)/4 + (44 \times (4 - 4/4)^4) \\
&:= 5^5 + (((55/5 + 5) + 5)^{(5+5)/5}) \\
&:= (6 + 6)/6 + (66 \times (66 - 6 - 6)) \\
&:= (7 \times (7 \times (77 + 7) - 77)) - 77/7 \\
&:= (8 - 88)/8 + (8 \times 8 \times (8 \times 8 - 8) - 8) \\
&:= (9 + 9)/9 + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3567 &:= 111 + ((1 + 1) \times ((1 + 11)^{1+1+1})) \\
&:= 2 + (((22 \times ((2^{2+2} + 2)^2)) + 2)/2) \\
&:= 3 + (3 \times (33 \times (33 + 3))) \\
&:= 4 + ((4 + 4) \times 444 + 44/4) \\
&:= 5 + (((5 + 5)/5)^5 \times 555/5 + 5) + 5 \\
&:= (6 \times 6/(6 + 6)) + (66 \times (66 - 6 - 6)) \\
&:= 77 + ((7 \times (7 \times (77 - 7) + 7)) + (77/7)) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - (8/8 + 8 + 8) \\
&:= ((9 + 9 + 9)/9) + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3568 &:= 1 + (111 + ((1 + 1) \times ((1 + 11)^{1+1+1}))) \\
&:= 2 \times (2 \times (2 \times (2 \times 222 + 2))) \\
&:= 3 + ((3 \times (33 \times (33 + 3))) + 3/3) \\
&:= 4 + (44 \times (4 - 4/4)^4) \\
&:= 5^5 + (555 - (555 + 5)/5) \\
&:= 6 + ((66 \times (66 - 6 - 6)) - ((6 + 6)/6)) \\
&:= 7 \times 7 \times 77 - (((7 + 7)/7)^7 + 77) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - 8 - 8 \\
&:= (9 - 9/9) \times ((9 \times 9 \times 99 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3569 &:= 111 + ((1 + 1) \times (1 + ((1 + 11)^{1+1+1}))) \\
&:= 2/2 + (2 \times (2 \times (2 \times (2 \times 222 + 2)))) \\
&:= 3 + (((3 \times (33 \times (33 + 3))) - 3/3) + 3) \\
&:= 4 + ((44 \times (4 - 4/4)^4) + 4/4) \\
&:= 5^5 + ((5 - 5/5) \times 555/5) \\
&:= 6 + ((66 \times (66 - 6 - 6)) - 6/6) \\
&:= ((7/7 - 7) + 7 \times 7) \times (77 - 7/7 + 7) \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 - 8) - (8 + 8)) \\
&:= 9 + ((9 - 9/9) \times ((9 \times 9 \times 99 - 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3570 &:= (11 - 1) \times ((1 + 1 + 1) \times (11^{1+1} - (1 + 1))) \\
&:= 2 + (2 \times (2 \times (2 \times (2 \times 222 + 2)))) \\
&:= 3 + ((3 \times (33 \times (33 + 3))) + 3) \\
&:= (4^4 - 4/4) \times ((44 - 4)/4 + 4) \\
&:= 55 \times (55 + 5 + 5) - 5 \\
&:= 6 + (66 \times (66 - 6 - 6)) \\
&:= (77 - 7) \times ((7 + 7)/7 + 7 \times 7) \\
&:= (8 - 8/8) \times (8 \times 8 \times 8 - ((8 + 8)/8)) \\
&:= ((9 - 9/9) + 9) \times (999/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3571 &:= 1 + ((11 - 1) \times ((1 + 1 + 1) \times (11^{1+1} - (1 + 1)))) \\
&:= (2 \times ((2 \times 22 - 2)^2 + 22)) - 2/2 \\
&:= 3 + (((3 \times (33 \times (33 + 3))) + 3/3) + 3) \\
&:= 4 + (((4 + 4) \times 444 + 44/4) + 4) \\
&:= 5/5 + (55 \times (55 + 5 + 5) - 5) \\
&:= 6 + ((66 \times (66 - 6 - 6)) + 6/6) \\
&:= 7/7 + ((77 - 7) \times ((7 + 7)/7 + 7 \times 7)) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - (88 + 8 + 8)/8 \\
&:= 9 + (((9 + 9)/9) \times ((9 + 9) \times 99 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3572 &:= ((1 + 111) \times ((11 \times (1 + 1 + 1)) - 1)) - 1 - 11 \\
&:= 2 \times ((2 \times 22 - 2)^2 + 22) \\
&:= (3 \times ((33 \times (33 + 3)) + 3)) - 3/3 \\
&:= 4 + ((44 \times (4 - 4/4)^4) + 4) \\
&:= (5 + 5)/5 + (55 \times (55 + 5 + 5) - 5) \\
&:= 6 + ((66 \times (66 - 6 - 6)) + ((6 + 6)/6)) \\
&:= (7/7 - 77) \times (((7 + 7)/7) - 7 \times 7) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - (88 + 8)/8 \\
&:= 9 + (((9 + 9) \times (99 + 99)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3573 &:= ((1 + 111) \times ((11 \times (1 + 1 + 1)) - 1)) - 11 \\
&:= 22 + ((2^{2+2} \times 222) - 2/2) \\
&:= 3 \times ((33 \times (33 + 3)) + 3) \\
&:= ((4 + 4) \times (444 + 4)) - 44/4 \\
&:= 55 \times (55 + 5 + 5) - (5 + 5)/5 \\
&:= (6 \times 6/(6 + 6) + 6) \times (6 \times 66 + 6/6) \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 77)) - (77/7)) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - 88/8 \\
&:= 9 + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3574 &:= 11 \times (1 + ((1 + 1) \times (11 - 1 - 1))^{1+1}) - 1 \\
&:= 22 + (2^{2+2} \times 222) \\
&:= 3/3 + (3 \times ((33 \times (33 + 3)) + 3)) \\
&:= 4 + ((4^4 - 4/4) \times ((44 - 4)/4 + 4)) \\
&:= 55 \times (55 + 5 + 5) - 5/5 \\
&:= ((66 - 6)/6) + (66 \times (66 - 6 - 6)) \\
&:= (7 \times (7 \times (77 + 7) - 77)) - (7 + 7 + 7)/7 \\
&:= (8 - 88)/8 + 8 \times 8 \times (8 \times 8 - 8) \\
&:= 9 + (((9 + 9) \times (99 + 99)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3575 &:= 11 \times (1 + ((1 + 1) \times (11 - 1 - 1))^{1+1}) \\
&:= 22 + ((2^{2+2} \times 222) + 2/2) \\
&:= 33/3 + (3 \times (33 \times (33 + 3))) \\
&:= 44/4 + (44 \times (4 - 4/4)^4) \\
&:= 55 \times (55 + 5 + 5) \\
&:= 66/6 + (66 \times (66 - 6 - 6)) \\
&:= 77/7 \times (7 \times 7 \times 7 - (77/7 + 7)) \\
&:= 8 \times 8 \times (8 \times 8 - 8) - (8/8 + 8) \\
&:= 99/9 + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3576 &:= 11 \times (1 + ((1 + 1) \times (11 - 1 - 1))^{1+1}) + 1 \\
&:= 2 + ((2^{2+2} \times 222) + 22) \\
&:= 3 + (3 \times ((33 \times (33 + 3)) + 3)) \\
&:= (4 + 4) \times ((444 - 4/4) + 4) \\
&:= 5/5 + 55 \times (55 + 5 + 5) \\
&:= 6 + ((66 \times (66 - 6 - 6)) + 6) \\
&:= (7 \times (7 \times (77 + 7) - 77)) - 7/7 \\
&:= 8 \times 8 \times (8 \times 8 - 8) - 8 \\
&:= (99 + 9)/9 + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3577 &:= 11^{1+1} + ((1 + 1) \times ((1 + 11)^{1+1+1})) \\
&:= 2 + (((2^{2+2} \times 222) + 22) + 2/2) \\
&:= 3333 + ((3^{3+3} + 3)/3) \\
&:= 4 + (((4 + 4) \times (444 + 4)) - 44/4) \\
&:= (5 + 5)/5 + 55 \times (55 + 5 + 5) \\
&:= 6 + (((66 \times (66 - 6 - 6)) + 6/6) + 6) \\
&:= 7 \times (7 \times (77 + 7) - 77) \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 - 8) - 8) \\
&:= (9 - (9 + 9)/9) \times (((9 + 9)/9)^9) - 9/9
\end{aligned}$$

- **3578** := $1 + (11^{1+1} + ((1+1) \times ((1+11)^{1+1+1})))$
:= $((2^{2+2} + 2 \times 22)^2) - 22$
:= $3 + ((3 \times (33 \times (33+3))) + 33/3)$
:= $((4+4) \times (444+4)) - ((4+4)/4+4)$
:= $5 + (55 \times (55+5+5) - ((5+5)/5))$
:= $6 + (((66 \times (66-6-6)) + ((6+6)/6)) + 6)$
:= $7/7 + (7 \times (7 \times (77+7) - 77))$
:= $(8+8)/8 + (8 \times 8 \times (8 \times 8 - 8) - 8)$
:= $((9+9)/9) \times (((9+9) \times 99 - (9+9)/9) + 9)$
- **3579** := $11^{1+1} + ((1+1) \times (1 + ((1+11)^{1+1+1})))$
:= $2/2 + (((2^{2+2} + 2 \times 22)^2) - 22)$
:= $3 + ((3 \times ((33 \times (33+3)) + 3)) + 3)$
:= $((4+4) \times (444+4)) - (4/4+4)$
:= $5 + (55 \times (55+5+5) - 5/5)$
:= $((6-6/6) \times ((6 \times 6/(6+6))^6)) - 66$
:= $7 + ((7/7 - 77) \times (((7+7)/7) - 7 \times 7))$
:= $88/8 + (8 \times 8 \times (8 \times 8 - 8) - (8+8))$
:= $9 + (((9-9/9) + 9) \times (999/9 + 99))$
- **3580** := $(11-1) \times (1 + ((1+1+1) \times (11^{1+1} - (1+1))))$
:= $2 \times ((2 \times (2 \times (2 \times (222+2)))) - 2)$
:= $3 + (((3^{3+3} + 3)/3) + 3333)$
:= $((4+4) \times (444+4)) - 4$
:= $5 + 55 \times (55+5+5)$
:= $6 + ((66 \times (66-6-6)) + ((66-6)/6))$
:= $(7+7+7)/7 + (7 \times (7 \times (77+7) - 77))$
:= $8 \times 8 \times (8 \times 8 - 8) - (8/((8+8)/8))$
:= $((9+9)/9) \times (((9+9) \times 99 - 9/9) + 9)$
- **3581** := $((1+111) \times ((11 \times (1+1+1)) - 1)) - 1 - 1 - 1$
:= $(2^{2+2} \times (222+2)) - 2/2 - 2$
:= $((33 \times 333 - 3)/3) - 3 \times 3^3$
:= $4/4 + (((4+4) \times (444+4)) - 4)$
:= $5 + (55 \times (55+5+5) + 5/5)$
:= $6 + ((66 \times (66-6-6)) + (66/6))$
:= $77/7 + ((77-7) \times ((7+7)/7 + 7 \times 7))$
:= $8 + (8 \times 8 \times (8 \times 8 - 8) - (88/8))$
:= $9 + (((9+9) \times (99+99)) - 9/9) + 9$
- **3582** := $((1+111) \times ((11 \times (1+1+1)) - 1)) - 1 - 1$
:= $(2^{2+2} \times (222+2)) - 2$
:= $3 \times (((33 \times (33+3)) + 3) + 3)$
:= $((4+4) \times (444+4)) - (4+4)/4$
:= $5 + (55 \times (55+5+5) + ((5+5)/5))$
:= $6 + (((66 \times (66-6-6)) + 6) + 6)$
:= $7 + (77/7 \times (7 \times 7 \times 7 - (77/7 + 7)))$
:= $8 \times 8 \times (8 \times 8 - 8) - (8+8)/8$
:= $9 + (((9+9) \times (99+99)) + 9)$
- **3583** := $((1+111) \times ((11 \times (1+1+1)) - 1)) - 1$
:= $(2^{2+2} \times (222+2)) - 2/2$
:= $3/3 + (3 \times (((33 \times (33+3)) + 3) + 3))$
:= $((4+4) \times (444+4)) - 4/4$
:= $5 + ((55 \times (55+5+5) - ((5+5)/5)) + 5)$
:= $(6 \times (666 - 66)) - (66/6 + 6)$
:= $7 + ((7 \times (7 \times (77+7) - 77)) - 7/7)$
:= $8 \times 8 \times (8 \times 8 - 8) - 8/8$
:= $9 + (((9+9) \times (99+99)) + 9/9) + 9$
- **3584** := $(1+111) \times ((11 \times (1+1+1)) - 1)$
:= $2^{2+2} \times (222+2)$
:= $(3/3 + 3 + 3) \times ((3 - 3/3)^{3 \times 3})$
:= $(4+4) \times (444+4)$
:= $((5+5)/5)^5 \times (555+5)/5$
:= $((6+6)/6)^6 \times (((6-66)/6) + 66)$
:= $7 + (7 \times (7 \times (77+7) - 77))$
:= $8 \times 8 \times (8 \times 8 - 8)$
:= $(9 - (9+9)/9) \times ((9+9)/9)^9$
- **3585** := $1 + ((1+111) \times ((11 \times (1+1+1)) - 1))$
:= $2/2 + (2^{2+2} \times (222+2))$
:= $3 + (3 \times (((33 \times (33+3)) + 3) + 3))$
:= $4/4 + ((4+4) \times (444+4))$
:= $5 + (55 \times (55+5+5) + 5)$
:= $(6-6/6) \times (((6 \times 6/(6+6))^6) - (6+6))$
:= $7 + ((7 \times (7 \times (77+7) - 77)) + 7/7)$
:= $8/8 + 8 \times 8 \times (8 \times 8 - 8)$
:= $9/9 + ((9 - (9+9)/9) \times ((9+9)/9)^9)$
- **3586** := $11 \times ((1+1+1) \times (111-1-1) - 1)$
:= $2 + (2^{2+2} \times (222+2))$
:= $33/3 \times (333 - (3/3 + 3 + 3))$
:= $(4+4)/4 + ((4+4) \times (444+4))$
:= $55/5 + 55 \times (55+5+5)$
:= $66 + (((6+6)/6)^6 \times (66-66/6))$
:= $((77/7 + 7 \times 7)^{(7+7)/7}) - (7+7)$
:= $(8+8)/8 + 8 \times 8 \times (8 \times 8 - 8)$
:= $99/9 \times ((9+9) \times (9+9) + ((9+9)/9))$
- **3587** := $1 + (11 \times ((1+1+1) \times (111-1-1) - 1))$
:= $2 + ((2^{2+2} \times (222+2)) + 2/2)$
:= $3 + ((3/3 + 3 + 3) \times ((3 - 3/3)^{3 \times 3}))$
:= $4 + (((4+4) \times (444+4)) - 4/4)$
:= $((55+5)/5) + 55 \times (55+5+5)$
:= $(66/6+6) \times (6 \times 6 \times 6 - 6+6/6)$
:= $((77-7)/7) + (7 \times (7 \times (77+7) - 77))$
:= $88/8 + (8 \times 8 \times (8 \times 8 - 8) - 8)$
:= $((9-9/9) + 9) \times (((999+9)/9) + 99)$
- **3588** := $(1+11) \times (11 + ((1+1) \times (1+11)^{1+1}))$
:= $2 + ((2^{2+2} \times (222+2)) + 2)$
:= $3^3 + ((3 \times (33 \times (33+3))) - 3)$
:= $4 + ((4+4) \times (444+4))$
:= $(5/5+5) \times ((5^5 - 5 - 5)/5 - 5 \times 5)$
:= $(6 \times (666 - 66)) - 6 - 6$
:= $77/7 + (7 \times (7 \times (77+7) - 77))$
:= $(8/((8+8)/8)) + 8 \times 8 \times (8 \times 8 - 8)$
:= $((9+9)/9) \times ((9+9) \times 99 + (99+9)/9)$
- **3589** := $11 \times (11 + (1+1) \times (1+11)^{1+1})$
:= $((2^{2+2} + 2 \times 22)^2) - 22/2$
:= $3333 + ((3/3 + 3)^{3/3+3})$
:= $4 + (((4+4) \times (444+4)) + 4/4)$
:= $((55+5)^{(5+5)/5}) - 55/5$
:= $(6 \times (666 - 66)) - 66/6$
:= $7 \times (7 \times 77 - 7) - (((7+7)/7)^7 + 7)$
:= $8 + ((8 \times 8 \times (8 \times 8 - 8) - (88/8)) + 8)$
:= $9 + (((9+9)/9) \times ((9+9) \times 99 - 9/9) + 9)$
- **3590** := $(11-1) \times ((1+1+1) \times (111-1) - 1)$
:= $2 + (((2^{2+2} \times (222+2)) + 2) + 2)$
:= $3^3 + ((3 \times (33 \times (33+3))) - 3/3)$
:= $4 + (((4+4) \times (444+4)) + (4+4)/4)$
:= $((55+5)^{(5+5)/5}) - 5 - 5$
:= $(6-66)/6 + (6 \times (666-66))$
:= $777/7 + (7 \times (7 \times (77-7) + 7))$
:= $8 + (8 \times 8 \times (8 \times 8 - 8) - ((8+8)/8))$
:= $((9+9)/9)^9 + ((9+9) \times (9 \times (9+9) + 9))$
- **3591** := $(1+1+1) \times ((11 \times (111-1-1)) - (1+1))$
:= $(2/2+2)^2 \times ((22-2)^2 - 2/2)$
:= $3 \times ((33 \times (33+3)) + 3 \times 3)$
:= $4 + (((4+4) \times (444+4)) - 4/4) + 4$
:= $5 + (55 \times (55+5+5) + (55/5))$
:= $6 + ((6-6/6) \times (((6 \times 6/(6+6))^6) - (6+6)))$
:= $7 + ((7 \times (7 \times (77+7) - 77)) + 7)$
:= $8 + (8 \times 8 \times (8 \times 8 - 8) - 8/8)$
:= $9 + (((9+9) \times (99+99)) + 9) + 9$
- **3592** := $1 + ((1+1+1) \times ((11 \times (111-1-1)) - (1+1)))$
:= $2 \times (2 \times ((2 \times (2 \times (222+2)))) + 2)$
:= $3^3 + ((3 \times (33 \times (33+3))) + 3/3)$
:= $4 + (((4+4) \times (444+4)) + 4)$
:= $5 + (55 \times (55+5+5) + ((55+5)/5))$
:= $((6+6)/6)^{6+6} - (6+6) \times (6 \times 6+6)$
:= $7 + (((7 \times (7 \times (77+7) - 77)) + 7/7) + 7)$
:= $8 + 8 \times 8 \times (8 \times 8 - 8)$
:= $9 + (((9+9) \times (99+99)) + 9/9) + 9 + 9$

$$\begin{aligned}
\blacktriangleright 3593 &:= ((1 + 11111)/(1 + 1 + 1)) - 111 \\
&:= 2 + ((2/2 + 2)^2 \times ((22 - 2)^2 - 2/2)) \\
&:= (((33 \times (333 - (3 + 3))) - 3)/3) - 3 \\
&:= 4 + (((4 + 4) \times (444 + 4)) + 4/4 + 4) \\
&:= ((55 + 5)^{(5+5)/5}) - ((5 + 5)/5 + 5) \\
&:= (6 \times (666 - 66)) - 6/6 - 6 \\
&:= ((77/7 + 7 \times 7)^{(7+7)/7}) - 7 \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) + 8/8) \\
&:= 9 + ((9 - (9 + 9)/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3594 &:= (1 + 1 + 1) \times ((11 \times (111 - 1 - 1)) - 1) \\
&:= 2 + (2 \times (2 \times (2 \times (2 \times (222 + 2)))) + 2)) \\
&:= 3 + ((3 \times (33 \times (33 + 3))) + 3^3) \\
&:= 44 + ((4 + 4) \times 444 - (4 + 4)/4) \\
&:= 5^5 + ((5 - 5/5)^5 - 555) \\
&:= (6 \times (666 - 66)) - 6 \\
&:= (7 - 7/7) \times (7 \times (77 + 7) + (77/7)) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) + ((8 + 8)/8)) \\
&:= 9 + (((9 - (9 + 9)/9) \times ((9 + 9)/9)^9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3595 &:= 1 + ((1 + 1 + 1) \times ((11 \times (111 - 1 - 1)) - 1)) \\
&:= 22/2 + (2^{2+2} \times (222 + 2)) \\
&:= (((33 \times (333 - (3 + 3))) + 3)/3) - 3 \\
&:= 44 + ((4 + 4) \times 444 - 4/4) \\
&:= ((55 + 5)^{(5+5)/5}) - 5 \\
&:= 6/6 + ((6 \times (666 - 66)) - 6) \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 77)) + (77/7)) \\
&:= 88/8 + 8 \times 8 \times (8 \times 8 - 8) \\
&:= 9 + ((99/9) \times ((9 + 9) \times (9 + 9) + ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3596 &:= (11 \times ((1 + 1 + 1) \times (111 - 1 - 1))) - 1 \\
&:= 2 \times ((2 \times 2 \times 2 \times 222) + 22) \\
&:= ((33 \times (333 - (3 + 3))) - 3)/3 \\
&:= 44 + (4 + 4) \times 444 \\
&:= 5/5 + (((55 + 5)^{(5+5)/5}) - 5) \\
&:= (6 + 6)/6 + ((6 \times (666 - 66)) - 6) \\
&:= 7 \times (7 \times 77 - 7) - ((7 + 7)/7)^7 \\
&:= ((88 + 8)/8) + 8 \times 8 \times (8 \times 8 - 8) \\
&:= ((9 \times 9 - 9)/(9 + 9)) \times ((9 \times 99 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3597 &:= 11 \times ((1 + 1 + 1) \times (111 - 1 - 1)) \\
&:= (222/2 - 2) \times (22/2 + 22) \\
&:= 33 + (3 \times (33 \times (33 + 3))) \\
&:= 44 + ((4 + 4) \times 444 + 4/4) \\
&:= (5 + 5)/5 + (((55 + 5)^{(5+5)/5}) - 5) \\
&:= 66/6 \times (666/6 + 6 \times 6 \times 6) \\
&:= 7 \times (7 \times 77 - 7 - 7) - 7/7 - 77 \\
&:= 8 \times 8 \times (8 \times 8 - 8) + (88 + 8 + 8)/8 \\
&:= 99/9 \times ((9 + 9) \times (9 + 9) + ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3598 &:= 1 + (11 \times ((1 + 1 + 1) \times (111 - 1 - 1))) \\
&:= ((2^{2+2} + 2 \times 22)^2) - 2 \\
&:= ((33 \times (333 - (3 + 3))) + 3)/3 \\
&:= (4/4 + 4^4) \times ((44 - 4)/4 + 4) \\
&:= ((55 + 5)^{(5+5)/5}) - (5 + 5)/5 \\
&:= (6 \times (666 - 66)) - (6 + 6)/6 \\
&:= 7 \times (7 \times 77 - 7 - 7) - 77 \\
&:= (8 - 8/8) \times (8 \times 8 \times 8 + (8 + 8)/8) \\
&:= ((9 + 9)/9) \times (((9 + 9) \times 99 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3599 &:= ((11^{1+1} - 1)/(1 + 1))^{1+1} - 1 \\
&:= ((2^{2+2} + 2 \times 22)^2) - 2/2 \\
&:= ((3^3 + 33)^{3-3/3}) - 3/3 \\
&:= (((4 + 4) + 4) \times (44 + 4^4)) - 4/4 \\
&:= ((55 + 5)^{(5+5)/5}) - 5/5 \\
&:= (6 \times (666 - 66)) - 6/6 \\
&:= 7/7 + (7 \times (7 \times 77 - 7 - 7) - 77) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) - 8/8) + 8) \\
&:= (9 \times ((99/9 + 9)^{(9+9)/9})) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3600 &:= ((11^{1+1} - 1)/(1 + 1))^{1+1} \\
&:= (2^{2+2} + 2 \times 22)^2 \\
&:= (3^3 + 33)^{3-3/3} \\
&:= ((4 + 4) + 4) \times (44 + 4^4) \\
&:= (55 + 5)^{(5+5)/5} \\
&:= 6 \times (666 - 66) \\
&:= (77/7 + 7 \times 7)^{(7+7)/7} \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) + 8) \\
&:= 9 \times ((99/9 + 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3601 &:= ((11^{1+1} - 1)/(1 + 1))^{1+1} + 1 \\
&:= 2/2 + ((2^{2+2} + 2 \times 22)^2) \\
&:= 3/3 + ((3^3 + 33)^{3-3/3}) \\
&:= 4/4 + (((4 + 4) + 4) \times (44 + 4^4)) \\
&:= 5/5 + ((55 + 5)^{(5+5)/5}) \\
&:= 6/6 + (6 \times (666 - 66)) \\
&:= 7/7 + ((77/7 + 7 \times 7)^{(7+7)/7}) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) + 8/8) + 8) \\
&:= 9/9 + (9 \times ((99/9 + 9)^{(9+9)/9}))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3602 &:= ((11^{1+1} - 1)/(1 + 1))^{1+1} + 1 + 1 \\
&:= 2 + ((2^{2+2} + 2 \times 22)^2) \\
&:= 3 + (((3^3 + 33)^{3-3/3}) - 3/3) \\
&:= 4 + ((4/4 + 4^4) \times ((44 - 4)/4 + 4)) \\
&:= (5 + 5)/5 + ((55 + 5)^{(5+5)/5}) \\
&:= (6 + 6)/6 + (6 \times (666 - 66)) \\
&:= (7 + 7)/7 + ((77/7 + 7 \times 7)^{(7+7)/7}) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) + ((8 + 8)/8)) + 8) \\
&:= 9 + (((9 - (9 + 9)/9) \times ((9 + 9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3603 &:= ((11^{1+1} - 1)/(1 + 1))^{1+1} + 1 + 1 + 1 \\
&:= 2 + (((2^{2+2} + 2 \times 22)^2) + 2/2) \\
&:= 3 + ((3^3 + 33)^{3-3/3}) \\
&:= 4 + (((4 + 4) + 4) \times (44 + 4^4)) - 4/4 \\
&:= 5 + (((55 + 5)^{(5+5)/5}) - ((5 + 5)/5)) \\
&:= (6 \times 6/(6 + 6)) + (6 \times (666 - 66)) \\
&:= 7 + (7 \times (7 \times 77 - 7) - ((7 + 7)/7)^7) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) + (88/8)) \\
&:= 9 + (((9 - (9 + 9)/9) \times ((9 + 9)/9)^9) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3604 &:= ((11^{1+1} - 1)/(1 + 1))^{1+1} + 1 + 1 + 1 + 1 \\
&:= 2 + (((2^{2+2} + 2 \times 22)^2) + 2) \\
&:= 3 + (((3^3 + 33)^{3-3/3}) + 3/3) \\
&:= 4 + (((4 + 4) + 4) \times (44 + 4^4)) \\
&:= 5 + (((55 + 5)^{(5+5)/5}) - 5/5) \\
&:= 6 + ((6 \times (666 - 66)) - ((6 + 6)/6)) \\
&:= 77 + (((7 \times 7 - 7) \times (77 + 7)) - 7/7) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) + ((88 + 8)/8)) \\
&:= ((9 + 9)/9) \times (((9 + 9) \times 99 + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3605 &:= 11 + ((1 + 1 + 1) \times ((11 \times (111 - 1 - 1)) - 1)) \\
&:= 2 + (((2^{2+2} + 2 \times 22)^2) + 2/2) + 2) \\
&:= (3/3 + 3 + 3) \times (((3 - 3/3)^{3 \times 3}) + 3) \\
&:= 4 + (((4 + 4) + 4) \times (44 + 4^4)) + 4/4 \\
&:= 5 + ((55 + 5)^{(5+5)/5}) \\
&:= 6 + ((6 \times (666 - 66)) - 6/6) \\
&:= 77 + ((7 \times 7 - 7) \times (77 + 7)) \\
&:= (8 - 8/8) \times ((8 \times 8 \times 8 - 8) + (88/8)) \\
&:= ((9 \times 9 + 9)/(9 + 9)) \times ((9 \times 9 \times 9 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3606 &:= (1 + 1 + 1) \times (1 + (1 + (1 + (11 \times (111 - 1 - 1)))))) \\
&:= 22 + (2^{2+2} \times (222 + 2)) \\
&:= 3 + (((3^3 + 33)^{3-3/3}) + 3) \\
&:= 4 + (((4/4 + 4^4) \times ((44 - 4)/4 + 4)) + 4) \\
&:= 5 + (((55 + 5)^{(5+5)/5}) + 5/5) \\
&:= 6 + (6 \times (666 - 66)) \\
&:= 7/7 + (((7 \times 7 - 7) \times (77 + 7)) + 77) \\
&:= 8 + ((8 - 8/8) \times (8 \times 8 \times 8 + (8 + 8)/8)) \\
&:= (9 \times (((9 + 9)/9)^9 - 99)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3607 &:= (11 \times (1 + ((1 + 1 + 1) \times (111 - 1 - 1)))) - 1 \\
&:= 22 + ((2^{2+2} \times (222 + 2)) + 2/2) \\
&:= 3 + (((3^3 + 33)^{3-3/3}) + 3/3) + 3) \\
&:= 44 + ((4 + 4) \times 444 + 44/4) \\
&:= 5 + (((55 + 5)^{(5+5)/5}) + ((5 + 5)/5)) \\
&:= 6 + ((6 \times (666 - 66)) + 6/6) \\
&:= 7 + ((77/7 + 7 \times 7)^{(7+7)/7}) \\
&:= 8 + (((8 \times 8 \times (8 \times 8 - 8) - 8/8) + 8) + 8) \\
&:= 9 \times ((9 + 9)/9)^9 - (((9 + 9)/9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3608 &:= 11 \times (1 + ((1 + 1 + 1) \times (111 - 1 - 1))) \\
&:= 2 \times (2 \times ((2 \times (2 + 2) + 22)^2) + 2) \\
&:= (3/3 + 3) \times ((33 \times 3^3) + 33/3) \\
&:= 44 + (44 \times (4 - 4/4)^4) \\
&:= 5 + (((55 + 5)^{(5+5)/5}) - ((5 + 5)/5) + 5) \\
&:= 6 + ((6 \times (666 - 66)) + ((6 + 6)/6)) \\
&:= 77/7 \times (7 \times 7 \times 7 - (7/7 + 7 + 7)) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) + 8) + 8) \\
&:= 9 \times ((9 + 9)/9)^9 - (999 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3609 &:= 1 + (11 \times (1 + ((1 + 1 + 1) \times (111 - 1 - 1)))) \\
&:= (2/2 + 2)^2 \times ((22 - 2)^2 + 2/2) \\
&:= 3 \times (((3 + 3) \times (33 \times (3 + 3) + 3)) - 3) \\
&:= 44 + ((44 \times (4 - 4/4)^4) + 4/4) \\
&:= 5 + (((55 + 5)^{(5+5)/5}) - 5/5 + 5) \\
&:= ((6 - 6/6) \times ((6 \times 6/(6 + 6))^6)) - 6 \times 6 \\
&:= 77/7 + (7 \times (7 \times 77 - 7 - 7) - 77) \\
&:= 8 + (((8 \times 8 \times (8 \times 8 - 8) + 8/8) + 8) + 8) \\
&:= 9 \times ((9 + 9)/9)^9 - 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3610 &:= (11 - 1) \times (((1 + 1) \times (11 - 1)) - 1)^{1+1} \\
&:= (2^{2 \times (2+2+2)}) - (22^2 + 2) \\
&:= ((3/3 + 3 + 3)^3) + (3 \times 33 \times 33) \\
&:= ((4 + 4)^4) - (((44 \times 44 + 4) + 4)/4) \\
&:= 5 + (((55 + 5)^{(5+5)/5}) + 5) \\
&:= ((66 - 6)/6) + (6 \times (666 - 66)) \\
&:= 7 + ((7 \times (7 \times 77 - 7) - ((7 + 7)/7)^7) + 7) \\
&:= 8 + (((8 \times 8 \times (8 \times 8 - 8) + (8 + 8)/8) + 8) + 8) \\
&:= 9/9 + (9 \times ((9 + 9)/9)^9 - 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3611 &:= ((11^{1+1} - 1)/(1 + 1))^{1+1} + 11 \\
&:= 22/2 + ((2^{2+2} + 2 \times 22)^2) \\
&:= 33/3 + ((3^3 + 33)^{3-3/3}) \\
&:= ((4 + 4)^4) - ((44 \times 44 + 4)/4) \\
&:= 5^5 + (5555 - 5^5)/5 \\
&:= 66/6 + (6 \times (666 - 66)) \\
&:= 77 \times (7 \times 7 - (7 + 7)/7) - 7/7 - 7 \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) + (88/8)) + 8) \\
&:= 9 + (((9 - (9 + 9)/9) \times ((9 + 9)/9)^9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3612 &:= ((1 + 1)^{1+11}) - ((11 + 11)^{1+1}) \\
&:= (2^{2 \times (2+2+2)}) - 22^2 \\
&:= (3 + 3) \times ((33/3)^3 - 3^{3+3}) \\
&:= ((4 + 4)^4) - (44 \times 44/4) \\
&:= 5^5 + ((5555 - 5^5 + 5)/5) \\
&:= 6 + ((6 \times (666 - 66)) + 6) \\
&:= (77 + 7) \times ((7/7 - 7) + 7 \times 7) \\
&:= 8 \times 8 + (((8 \times 888) - 8)/(8 + 8)/8) \\
&:= ((99 + 9)/9 + 9) \times ((9 \times (9 + 9) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3613 &:= 1 + (((1 + 1)^{1+11}) - ((11 + 11)^{1+1})) \\
&:= 2/2 + ((2^{2 \times (2+2+2)}) - 22^2) \\
&:= 3 + (((3/3 + 3 + 3)^3) + (3 \times 33 \times 33)) \\
&:= ((4 + 4)^4) + ((4 - 44 \times 44)/4) \\
&:= 55 \times (55 + 5) + (5^5 + 5)/(5 + 5) \\
&:= 6 + (((6 \times (666 - 66)) + 6/6) + 6) \\
&:= 7 \times (7 \times 77 - 7) - 777/7 \\
&:= 8 + ((8 - 8/8) \times ((8 \times 8 \times 8 - 8) + (88/8))) \\
&:= 9 + (((9 + 9)/9) \times (((9 + 9) \times 99 + (99/9)) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3614 &:= 1 + (1 + (((1 + 1)^{1+11}) - ((11 + 11)^{1+1}))) \\
&:= 2 + ((2^{2 \times (2+2+2)}) - 22^2) \\
&:= 3 + (((3^3 + 33)^{3-3/3}) + 33/3) \\
&:= ((4 + 4)^4) + (((4 - 44 \times 44) + 4)/4) \\
&:= 5^5 + (555 - (55/5 + 55)) \\
&:= 6 + (((6 \times (666 - 66)) + ((6 + 6)/6)) + 6) \\
&:= 7 + (((77/7 + 7 \times 7)^{(7+7)/7}) + 7) \\
&:= 8 + (((8 - 8/8) \times (8 \times 8 \times 8 + (8 + 8)/8)) + 8) \\
&:= 9 + (((9 \times 9 + 9)/(9 + 9)) \times ((9 \times 9 \times 9 - 9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3615 &:= ((1 + 1 + 111) \times ((11 \times (1 + 1 + 1)) - 1)) - 1 \\
&:= ((22/2 + 2) + 2) \times (22^2 - 2)/2 \\
&:= (3 - 3/3 + 3) \times (3^{3+3} - (3 + 3)) \\
&:= ((4^4 - 4)/4) + (4 + 4) \times 444 \\
&:= 5 + (((55 + 5)^{(5+5)/5}) + 5) + 5) \\
&:= (6 - 6/6) \times (((6 \times 6/(6 + 6))^6) - 6) \\
&:= (7 \times (7 \times 77 - (7 + 7 + 7))) - 77/7 \\
&:= (8 \times (888/(8 + 8)/8) + 8) - 8/8 \\
&:= ((9 + 9) \times (99 + 99 + 9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3616 &:= (1 + 1 + 111) \times ((11 \times (1 + 1 + 1)) - 1) \\
&:= 2^{2+2} \times ((222 + 2) + 2) \\
&:= (33 - 3/3) \times (((333 - 3)/3) + 3) \\
&:= (4 + 4) \times (444 + 4 + 4) \\
&:= 5 + ((5555 - 5^5)/5 + 5^5) \\
&:= 6 + ((6 \times (666 - 66)) + ((66 - 6)/6)) \\
&:= 77 + (7 \times 7 - 7) \times (77 + 7) + 77/7 \\
&:= 8 \times (888/(8 + 8)/8) + 8) \\
&:= 9 + (9 \times ((9 + 9)/9)^9 - (((9 + 9)/9) + 999))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3617 &:= 1 + ((1 + 1 + 111) \times ((11 \times (1 + 1 + 1)) - 1)) \\
&:= 2/2 + (2^{2+2} \times ((222 + 2) + 2)) \\
&:= (33/3)^3 + (3 \times (3^{3+3} + 33)) \\
&:= 4/4 + ((4 + 4) \times (444 + 4 + 4)) \\
&:= 5 + (((5555 - 5^5 + 5)/5) + 5^5) \\
&:= 6 + ((6 \times (666 - 66)) + (66/6)) \\
&:= 77 \times (7 \times 7 - (7 + 7)/7) - (7 + 7)/7 \\
&:= 8/8 + (8 \times (888/(8 + 8)/8) + 8) \\
&:= 9 + (9 \times ((9 + 9)/9)^9 - (999 + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3618 &:= (11 \times (((1 + 1 + 1) \times (111 - 1) - 1)) - 1) - 1 \\
&:= 2 + (2^{2+2} \times ((222 + 2) + 2)) \\
&:= 3 \times ((3 + 3) \times (33 \times (3 + 3) + 3)) \\
&:= (4 + 4)/4 + ((4 + 4) \times (444 + 4 + 4)) \\
&:= (5/5 + 5) \times ((5^5 - (55 + 55))/5) \\
&:= (66 - 6 - 6) \times (66 + 6/6) \\
&:= 77 \times (7 \times 7 - (7 + 7)/7) - 7/7 \\
&:= (8 + 8)/8 + (8 \times (888/(8 + 8)/8) + 8) \\
&:= 9 + (9 \times ((9 + 9)/9)^9 - 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3619 &:= 11 \times (((1 + 1 + 1) \times (111 - 1) - 1) - 1) \\
&:= 2 + ((2^{2+2} \times ((222 + 2) + 2)) + 2/2) \\
&:= 33/3 \times (333 - (3/3 + 3)) \\
&:= 4 + ((4 + 4) \times 444 + ((4^4 - 4)/4)) \\
&:= 5^5 + (555 - ((55 + 5/5) + 5)) \\
&:= 6/6 + ((66 - 6 - 6) \times (66 + 6/6)) \\
&:= 77 \times (7 \times 7 - (7 + 7)/7) \\
&:= 8 + (((8 \times 8 \times (8 \times 8 - 8) + (88/8)) + 8) + 8) \\
&:= 9 + ((9 \times ((9 + 9)/9)^9 - 999) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3620 &:= 1 + (11 \times (((1 + 1 + 1) \times (111 - 1) - 1) - 1)) \\
&:= 2 + ((2^{2+2} \times ((222 + 2) + 2)) + 2) \\
&:= (3 \times 3 + 3/3) \times ((33 \times 33 - 3)/3) \\
&:= 4 + ((4 + 4) \times (444 + 4 + 4)) \\
&:= 5^5 + (55 \times (5 - 5/5 + 5)) \\
&:= (6 - 6/6) \times ((66 \times 66 - 6 - 6)/6) \\
&:= 7/7 + 77 \times (7 \times 7 - (7 + 7)/7) \\
&:= 8 \times 8 + ((8 \times 888 + 8)/(8 + 8)/8) \\
&:= (99/9 + 9) \times ((9/9 + 99) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3621 &:= 1 + (1 + (11 \times (((1 + 1 + 1) \times (111 - 1) - 1) - 1))) \\
&:= 22 + (((2^{2+2} + 2 \times 22)^2) - 2/2) \\
&:= 3 + (3 \times ((3 + 3) \times (33 \times (3 + 3) + 3))) \\
&:= 4 + (((4 + 4) \times (444 + 4 + 4)) + 4/4) \\
&:= 5^5 + ((55 \times (5 - 5/5 + 5)) + 5/5) \\
&:= 6 + ((6 - 6/6) \times (((6 \times 6/(6 + 6))^6) - 6)) \\
&:= (7 + 7)/7 + 77 \times (7 \times 7 - (7 + 7)/7) \\
&:= 8 \times 8 \times (8 \times 8 - 8) + 888/(8 + 8 + 8) \\
&:= ((9/9 + 9) \times (99 \times 99/(9 + 9 + 9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3622 &:= ((1 + 1 + 1) \times (1 + (11 \times (111 - 1)))) - 11 \\
&:= 22 + ((2^{2+2} + 2 \times 22)^2) \\
&:= 3 + (33/3 \times (333 - (3/3 + 3))) \\
&:= 4 + (((4 + 4) \times (444 + 4 + 4)) + (4 + 4)/4) \\
&:= 5^5 + (((5 + 5)/5 - (55 + 5)) + 555) \\
&:= ((6 + 6)/6)^6 + ((66 \times (66 - 6 - 6)) - 6) \\
&:= 7 + ((7 \times (7 \times 77 - (7 + 7 + 7))) - (77/7)) \\
&:= ((8 \times 8 - (8/8 + 8)) \times (((8 + 8)/8) + 8 \times 8)) - 8 \\
&:= ((9 \times 9 - (99/9 + 9))^{(9+9)/9}) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3623 &:= ((1+1+1) \times ((11 \times (111-1)) - (1+1))) - 1 \\
&:= 22 + (((2^{2+2} + 2 \times 22)^2) + 2/2) \\
&:= (((33 \times (333-3)) - 3)/3) - 3 - 3 \\
&:= ((4+4)^4) + (44/4 \times (4/4 - 44)) \\
&:= 5^5 + (555 - ((5+5)/5 + 55)) \\
&:= (66 \times (66 - 66/6)) - 6/6 - 6 \\
&:= 77/7 + ((77+7) \times ((7/7 - 7) + 7 \times 7)) \\
&:= 8 + ((8 \times (888/(8+8)/8) + 8) - 8/8) \\
&:= 9 \times 9 + ((99/9) \times ((9+9) \times (9+9) - ((9+9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3624 &:= (1+1+1) \times ((11 \times (111-1)) - (1+1)) \\
&:= 2 + (((2^{2+2} + 2 \times 22)^2) + 22) \\
&:= (33 \times ((333-3)/3)) - 3 - 3 \\
&:= 4 + (((4+4) \times (444+4+4)) + 4) \\
&:= 5^5 + (555 - (55+5/5)) \\
&:= (66 \times (66 - 66/6)) - 6 \\
&:= (7 \times (7 \times 77 - (7+7+7))) - (7+7)/7 \\
&:= 8 + (8 \times (888/((8+8)/8) + 8)) \\
&:= 9 + (((9+9) \times (99+99+9)) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3625 &:= 1 + ((1+1+1) \times ((11 \times (111-1)) - (1+1))) \\
&:= (2 \times (22-2))^2 + (2 \times 22 + 2/2)^2 \\
&:= (3 - 3/3 + 3) \times (3^{3+3} - (3/3 + 3)) \\
&:= 4 + (((4+4) \times (444+4+4)) + 4/4) + 4 \\
&:= 5 \times (5 \times (5 \times (5 \times 5 + 5) - 5)) \\
&:= (6 - 6/6) \times ((66 \times 66 - 6)/6) \\
&:= (7 \times (7 \times 77 - (7+7+7))) - 7/7 \\
&:= ((8-8/8) \times ((8 \times 8 \times 8 - 8/8) + 8)) - 8 \\
&:= (9 \times ((9+9) \times (9+9) + 9 \times 9)) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3626 &:= ((1+1+1) \times ((11 \times (111-1)) - 1)) - 1 \\
&:= 2 \times ((2 \times 22)^2 - ((22/2)^2 + 2)) \\
&:= (((33 \times (333-3)) - 3)/3) - 3 \\
&:= ((44-4)/4 + 4) \times ((4^4 - 4/4) + 4) \\
&:= 5^5 + ((5 \times 5 \times (5 \times 5 - 5)) + 5/5) \\
&:= 6 + ((6-6/6) \times ((66 \times 66 - 6-6)/6)) \\
&:= 7 \times (7 \times 77 - (7+7+7)) \\
&:= (8-8/8) \times ((8 \times 8 \times 8 - ((8+8)/8)) + 8) \\
&:= (99-9/9) \times (((9/9+9+9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3627 &:= (1+1+1) \times ((11 \times (111-1)) - 1) \\
&:= 22/2 + (2^{2+2} \times ((222+2) + 2)) \\
&:= (33 \times ((333-3)/3)) - 3 \\
&:= 44 + (((4+4) \times (444+4)) - 4/4) \\
&:= 5^5 + ((5 \times 5 \times (5 \times 5 - 5)) + ((5+5)/5)) \\
&:= 66 \times 66 - ((6 \times 6/(6+6))^6) \\
&:= 7/7 + (7 \times (7 \times 77 - (7+7+7))) \\
&:= 88/8 + (8 \times (888/((8+8)/8) + 8)) \\
&:= (9 \times ((9+9) \times (9+9) + 9 \times 9)) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3628 &:= 1 + ((1+1+1) \times ((11 \times (111-1)) - 1)) \\
&:= 2 \times ((2 \times (2 \times (2 \times (222+2)))) + 22) \\
&:= (((33 \times (333-3)) + 3)/3) - 3 \\
&:= 44 + ((4+4) \times (444+4)) \\
&:= 5^5 + ((5^5 - (555+55))/5) \\
&:= ((6+6)/6)^6 + (66 \times (66-6-6)) \\
&:= (7+7)/7 + (7 \times (7 \times 77 - (7+7+7))) \\
&:= 8 \times 8 \times (8 \times 8 - 8) + (88/((8+8)/8)) \\
&:= 9/9 + ((9 \times ((9+9) \times (9+9) + 9 \times 9)) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3629 &:= (11 \times ((1+1+1) \times (111-1))) - 1 \\
&:= (2 \times (2 \times 22)^2) - (22^2 + 2)/2 \\
&:= ((33 \times (333-3)) - 3)/3 \\
&:= 44 + (((4+4) \times (444+4)) + 4/4) \\
&:= (55 \times (55/5 + 55)) - 5/5 \\
&:= (66 \times (66 - 66/6)) - 6/6(77-7)/7 + 77 \times (7 \times 7 - (7+7)/7) \\
&:= (88/8 + 8) \times (8 \times (8+8+8) - 8/8) \\
&:= 9 + ((99/9 + 9) \times ((9/9 + 99) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3630 &:= 11 \times ((1+1+1) \times (111-1)) \\
&:= 2 \times ((2 \times 22)^2 - (22/2)^2) \\
&:= 33 \times ((333-3)/3) \\
&:= (44/4 + 4) \times 44 \times 44/(4+4) \\
&:= 55 \times (55/5 + 55) \\
&:= 66 \times (66 - 66/6) \\
&:= 77/7 + 77 \times (7 \times 7 - (7+7)/7) \\
&:= (8 \times 8 - (8/8+8)) \times (((8+8)/8) + 8 \times 8) \\
&:= (9/9 + 9) \times (99 \times 99/(9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3631 &:= 1 + (11 \times ((1+1+1) \times (111-1))) \\
&:= ((2-22^2)/2) + (2 \times (2 \times 22)^2) \\
&:= ((33 \times (333-3)) + 3)/3 \\
&:= 4^4 + ((44/4 + 4)^{4-4/4}) \\
&:= 5/5 + (55 \times (55/5 + 55)) \\
&:= 6/6 + (66 \times (66 - 66/6)) \\
&:= 7 \times 7 \times 77 - (((7+7)/7)^7 + 7) + 7 \\
&:= 888/8 + (8 \times (8 \times (8 \times 8 - 8) - 8)) \\
&:= ((9/9 + 9) \times ((9 \times 9 \times 9 \times 9 - 9)/(9+9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3632 &:= 1 + (1 + (11 \times ((1+1+1) \times (111-1)))) \\
&:= 2 + (2 \times ((2 \times 22)^2 - (22/2)^2)) \\
&:= 3 + (((33 \times (333-3)) - 3)/3) \\
&:= 4 + (((4+4) \times (444+4)) + 44) \\
&:= 5^5 + (((5+5)/5)^{5-5/5+5}) - 5 \\
&:= (6+6)/6 + (66 \times (66 - 66/6)) \\
&:= 7 + ((7 \times (7 \times 77 - (7+7+7))) - 7/7) \\
&:= (8 \times (8 \times (8 \times 8 - 8) + 8)) - 8 - 8 \\
&:= (9-9/9) \times (((9 \times 9 \times 99 - 9)/(9+9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3633 &:= (1+1+1) \times (1 + (11 \times (111-1))) \\
&:= 2 + (((2-22^2)/2) + (2 \times (2 \times 22)^2)) \\
&:= 3 + (33 \times ((333-3)/3)) \\
&:= (4-4/4)^4 + (4+4) \times 444 \\
&:= 5^5 + (((5^5 - (555+5))/5) - 5) \\
&:= 6 + (66 \times 66 - ((6 \times 6/(6+6))^6)) \\
&:= 7 + (7 \times (7 \times 77 - (7+7+7))) \\
&:= (8-8/8) \times ((8 \times 8 \times 8 - 8/8) + 8) \\
&:= ((99+9)/9 + 9) \times (99/9 + 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3634 &:= 1 + ((1+1+1) \times (1 + (11 \times (111-1)))) \\
&:= 2 \times (((2 \times 22)^2 - (22/2)^2) + 2) \\
&:= 3 + (((33 \times (333-3)) + 3)/3) \\
&:= 4 + ((44/4 + 4) \times 44 \times 44/(4+4)) \\
&:= 5^5 + ((5^5 - 555)/5 - 5) \\
&:= ((6+6)/6)^{6+6} - (6 \times 66 + 66) \\
&:= 7 + ((7 \times (7 \times 77 - (7+7+7))) + 7/7) \\
&:= 8 + ((8-8/8) \times ((8 \times 8 \times 8 - ((8+8)/8)) + 8)) \\
&:= (9 \times ((9+9) \times (9+9) + 9 \times 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3635 &:= 1 + (1 + ((1+1+1) \times (1 + (11 \times (111-1))))) \\
&:= 222/2 + (2 \times ((2 \times 22 - 2)^2 - 2)) \\
&:= (33 \times 3^3) + ((33/3 + 3)^3) \\
&:= 4 + (((44/4 + 4)^{4-4/4}) + 4^4) \\
&:= 5 + (55 \times (55/5 + 55)) \\
&:= (6-6/6) \times ((66 \times 66 + 6)/6) \\
&:= 7 + ((7 \times (7 \times 77 - (7+7+7))) + ((7+7)/7)) \\
&:= (8 \times (8 \times (8 \times 8 - 8) + 8)) - (88+8+8)/8 \\
&:= (9 \times ((9+9) \times (9+9) + 9 \times 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3636 &:= (1+1+1) \times (1 + (1 + (11 \times (111-1)))) \\
&:= 2 \times (((2 \times (22+2))^2) - (22^2 + 2)) \\
&:= (33 \times 333/3) - 3^3 \\
&:= ((4+4)^4) - (444+4 \times 4) \\
&:= (5/5+5) \times ((55 \times 55+5)/5) \\
&:= 6 \times ((666-66) + 6) \\
&:= 7 \times (7 \times 77 - 7) - (77/7 + 77) \\
&:= 88 + (((8 \times 888) - 8)/(8+8)/8) \\
&:= 9 \times (((9+9)/9)^9) - (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3637 &:= 1 + ((1+1+1) \times (1 + (1 + (11 \times (111-1))))) \\
&:= 222/2 + ((2 \times (2 \times 22 - 2)^2) - 2) \\
&:= (((33 \times 333 + 3)/3) - 3^3) \\
&:= 4 + ((4+4) \times 444 + (4-4/4)^4) \\
&:= 5^5 + (((5+5)/5)^{5-5/5+5}) \\
&:= 6/6 + (6 \times ((666-66) + 6)) \\
&:= 77/7 + (7 \times (7 \times 77 - (7+7+7))) \\
&:= (8 \times (8 \times (8 \times 8 - 8) + 8)) - 88/8 \\
&:= 9/9 + (9 \times (((9+9)/9)^9) - (99+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3638 &:= 11 + ((1 + 1 + 1) \times ((11 \times (111 - 1)) - 1)) \\
&:= 22 + (2^{2+2} \times ((222 + 2) + 2)) \\
&:= 3 + (((33/3 + 3)^3) + (33 \times 3^3)) \\
&:= ((4 + 4)^4) + ((4 + 4)/4 - (444 + 4 \times 4)) \\
&:= 5^5 + ((5^5 - (555 + 5))/5) \\
&:= (6 + 6)/6 + (6 \times ((666 - 66) + 6)) \\
&:= 7 \times 7 \times 77 - (((7 + 7)/7)^7 + 7) \\
&:= (8 - 88)/8 + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= ((9 - (9 + 9))/9) \times (((9 + 9)/9)^9 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3639 &:= (1 + 1 + 1) \times (1 + (1 + (1 + (11 \times (111 - 1)))))) \\
&:= 222/2 + (2 \times (2 \times 22 - 2)^2) \\
&:= 3 + ((33 \times 333/3) - 3^3) \\
&:= ((4 + 4) \times (444 + 44/4)) - 4/4 \\
&:= 5^5 + (5^5 - 555)/5 \\
&:= ((6 - 6/6) \times ((6 \times 6/(6 + 6))^6)) - 6 \\
&:= 777/7 + ((7 \times 7 - 7) \times (77 + 7)) \\
&:= (8 \times (8 \times (8 \times 8 - 8) + 8)) - (8/8 + 8) \\
&:= 9 + ((9/9 + 9) \times (99 \times 99/(9 + 9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3640 &:= (11 - 1) \times (1 + (11 \times (11 \times (1 + 1 + 1)))) \\
&:= 2 \times (2 \times (2 \times 2 \times 222 + 22)) \\
&:= (3 - 3/3 + 3) \times (3^{3+3} - 3/3) \\
&:= (4 + 4) \times (444 + 44/4) \\
&:= (55 + 5/5) \times (55 + 5 + 5) \\
&:= (6 - 6/6) \times (((6 \times 6/(6 + 6))^6) - 6/6) \\
&:= 7 \times (7 \times 77 - 7) - 77 - 7 \\
&:= (8 \times 8 - 8) \times (8/8 + 8 \times 8) \\
&:= (9/9 + 9) \times ((9 \times 9 \times 9 \times 9 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3641 &:= 11 \times (1 + ((1 + 1 + 1) \times (111 - 1))) \\
&:= 2 + ((2 \times (2 \times 22 - 2)^2) + 222/2) \\
&:= 33/3 \times ((333 - 3) + 3/3) \\
&:= ((4 + 4)^4) - (444 + 44/4) \\
&:= 5 + ((5/5 + 5) \times ((55 \times 55 + 5)/5)) \\
&:= 6 + ((6 - 6/6) \times ((66 \times 66 + 6)/6)) \\
&:= ((7 \times 7 - 7/7) \times (77 - 7/7)) - 7 \\
&:= 8/8 + ((8 \times 8 - 8) \times (8/8 + 8 \times 8)) \\
&:= 99/9 \times (((9 + 9) \times (9 + 9) - ((9 + 9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3642 &:= 1 + (11 \times (1 + ((1 + 1 + 1) \times (111 - 1)))) \\
&:= 2 + (2 \times (2 \times (2 \times 2 \times 222 + 22))) \\
&:= (3^{3+3} \times (3 - 3/3 + 3)) - 3 \\
&:= ((4 + 4)^4) + ((4 - 44)/4 - 444) \\
&:= 5 + (((5 + 5)/5)^{5-5/5+5} + 5^5) \\
&:= 6 + (6 \times ((666 - 66) + 6)) \\
&:= 7/7 + (((7 \times 7 - 7/7) \times (77 - 7/7)) - 7) \\
&:= (8 + 8)/8 + ((8 \times 8 - 8) \times (8/8 + 8 \times 8)) \\
&:= (9 \times ((9 + 9) \times (9 + 9) + 9 \times 9)) - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3643 &:= 1 + (1 + (11 \times (1 + ((1 + 1 + 1) \times (111 - 1)))))) \\
&:= 222/2 + (2 \times ((2 \times 22 - 2)^2 + 2)) \\
&:= 3 + ((3 - 3/3 + 3) \times (3^{3+3} - 3/3)) \\
&:= ((4 + 4)^4) - (((444 + 4/4) + 4) + 4) \\
&:= 5 + (((5^5 - (555 + 5))/5) + 5^5) \\
&:= 6 + ((6 \times ((666 - 66) + 6)) + 6/6) \\
&:= 7 + (7 \times (7 \times 77 - 7) - (77/7 + 77)) \\
&:= 88/8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) - (8 + 8)) \\
&:= (9 \times ((9 + 9) \times (9 + 9) + 9 \times 9)) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3644 &:= 11 + ((1 + 1 + 1) \times (1 + (11 \times (111 - 1)))) \\
&:= 2 \times ((2 \times (22 - 2))^2 + 222) \\
&:= (3^{3+3} \times (3 - 3/3 + 3)) - 3/3 \\
&:= ((4 + 4)^4) - (444 + 4 + 4) \\
&:= 5 + ((5^5 - 555)/5 + 5^5) \\
&:= ((6 - 6/6) \times ((6 \times 6/(6 + 6))^6)) - 6/6 \\
&:= 7 \times 7 \times 77 - (((7 + 7)/7)^7 + 7/7) \\
&:= 88 + ((8 \times 888 + 8)/(8 + 8)/8) \\
&:= (9 \times ((9 + 9) \times (9 + 9) + 9 \times 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3645 &:= (1 + (1 + 1 + 1 + 1)) \times (11 - 1 - 1)^{1+1+1} \\
&:= (2/2 + 2 + 2) \times ((2/2 + 2)^{2+2+2}) \\
&:= 3^{3+3} \times (3 - 3/3 + 3) \\
&:= (44 + 4/4) \times (4 - 4/4)^4 \\
&:= 5 \times ((5 - (5 + 5)/5)^{5/5+5}) \\
&:= (6 - 6/6) \times ((6 \times 6/(6 + 6))^6) \\
&:= 7 \times 7 \times 77 - ((7 + 7)/7)^7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) - (88/8)) \\
&:= 9 \times ((9 + 9) \times (9 + 9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3646 &:= ((1 + 1 + 1) \times (11 \times 111 - (1 + 1))) - 11 \\
&:= (2 \times ((2 \times 22)^2 - 2)) - 222 \\
&:= 3/3 + (3^{3+3} \times (3 - 3/3 + 3)) \\
&:= 4/4 + ((44 + 4/4) \times (4 - 4/4)^4) \\
&:= 5^5 + ((5^5 + 5/5)/(5/5 + 5)) \\
&:= 6/6 + ((6 - 6/6) \times ((6 \times 6/(6 + 6))^6)) \\
&:= 7 \times (7 \times 77 - 7) - 7/7 - 77 \\
&:= (8 \times (8 \times (8 \times 8 - 8) + 8)) - (8 + 8)/8 \\
&:= 9/9 + (9 \times ((9 + 9) \times (9 + 9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3647 &:= 1 + (((1 + 1 + 1) \times (11 \times 111 - (1 + 1))) - 11) \\
&:= 2 + ((2/2 + 2 + 2) \times ((2/2 + 2)^{2+2+2})) \\
&:= 3 + ((3^{3+3} \times (3 - 3/3 + 3)) - 3/3) \\
&:= ((4 + 4)^4) - ((444 + 4/4) + 4) \\
&:= 55 \times 55 + ((5^5 + 5 + 5)/5 - 5) \\
&:= 66/6 + (6 \times ((666 - 66) + 6)) \\
&:= 7 \times (7 \times 77 - 7) - 77 \\
&:= (8 \times (8 \times (8 \times 8 - 8) + 8)) - 8/8 \\
&:= (9 - (9 + 9)/9) \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3648 &:= (1 + 1) \times ((1 + 1)^{11} - ((1 + 1) \times (1 + 11))) \\
&:= 2 \times (2^{22/2} - (222 + 2)) \\
&:= 3 + (3^{3+3} \times (3 - 3/3 + 3)) \\
&:= ((4 + 4)^4) - (444 + 4) \\
&:= 5^5 + (555 - ((5 + 5)/5)^5) \\
&:= 6 + ((6 \times ((666 - 66) + 6)) + 6) \\
&:= (7 \times 7 - 7/7) \times (77 - 7/7) \\
&:= 8 \times (8 \times (8 \times 8 - 8) + 8) \\
&:= (9/9 + 9 + 9) \times (999/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3649 &:= ((1 + 1 + 1) \times (11 \times 111 - 1)) - 11 \\
&:= (22/2)^2 + (2 \times (2 \times 22 - 2)^2) \\
&:= (33/3 \times (333 - 3/3)) - 3 \\
&:= 4 + ((44 + 4/4) \times (4 - 4/4)^4) \\
&:= 55 \times 55 + (5^5 - 5)/5 \\
&:= ((66/6 + 6) \times (6 \times 6 \times 6 - 6/6)) - 6 \\
&:= 7/7 + ((7 \times 7 - 7/7) \times (77 - 7/7)) \\
&:= 8/8 + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= 9 + ((9/9 + 9) \times ((9 \times 9 \times 9 \times 9 - 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3650 &:= 11 \times ((1 + 1 + 1) \times 111 - 1) - 1 - 1 \\
&:= (2 \times (2 \times 22)^2) - 222 \\
&:= (3 - 3/3 + 3) \times (3^{3+3} + 3/3) \\
&:= ((4 + 4)^4) - (444 + (4 + 4)/4) \\
&:= 5^5/5 + 55 \times 55 \\
&:= (6 - 6/6) \times (((6 \times 6/(6 + 6))^6) + 6/6) \\
&:= (7/7 + 7 \times 7) \times ((77 - 77/7) + 7) \\
&:= (8 + 8)/8 + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= (9/9 + 9) \times ((9 \times 9 \times 9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3651 &:= (11 \times ((1 + 1 + 1) \times 111 - 1)) - 1 \\
&:= 2/2 + ((2 \times (2 \times 22)^2) - 222) \\
&:= 3 + ((3^{3+3} \times (3 - 3/3 + 3)) + 3) \\
&:= ((4 + 4)^4) - (444 + 4/4) \\
&:= 55 \times 55 + (5^5 + 5)/5 \\
&:= 6 + ((6 - 6/6) \times ((6 \times 6/(6 + 6))^6)) \\
&:= 7 \times 7 \times 77 - (777 + 77)/7 \\
&:= 88/8 + ((8 \times 8 - 8) \times (8/8 + 8 \times 8)) \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9) + 9 \times 9)) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3652 &:= 11 \times ((1 + 1 + 1) \times 111 - 1) \\
&:= 2 \times (2^{22/2} - 222) \\
&:= 33/3 \times (333 - 3/3) \\
&:= ((4 + 4)^4) - 444 \\
&:= 55 \times 55 + (5^5 + 5 + 5)/5 \\
&:= 66/6 \times (6 \times 66 - ((6 + 6)/6)^6) \\
&:= 7 + (7 \times 7 \times 77 - ((7 + 7)/7)^7) \\
&:= (8/(8 + 8)/8) + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= 99/9 \times (((9 + 9) \times (9 + 9) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3653 &:= 1 + (11 \times ((1 + 1 + 1) \times 111 - 1)) \\
&:= 2/2 + (2 \times (2^{22/2} - 222)) \\
&:= ((33 \times 333 - 3)/3) - 3 \times 3 \\
&:= 4/4 + (((4 + 4)^4) - 444) \\
&:= 5 + ((555 - ((5 + 5)/5)^5) + 5^5) \\
&:= 6 + ((6 \times ((666 - 66) + 6)) + (66/6)) \\
&:= 7 + (7 \times (7 \times 77 - 7) - (7/7 + 77)) \\
&:= ((8 - 8/8) \times (8 \times 8 \times 8 + 88/8)) - 8 \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9) + 9 \times 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3654 &:= 1 + (1 + (11 \times ((1 + 1 + 1) \times 111 - 1))) \\
&:= 2 + (2 \times (2^{22/2} - 222)) \\
&:= (33 \times 333/3) - 3 \times 3 \\
&:= ((4 + 4)^4) + ((4 + 4)/4 - 444) \\
&:= 5 + (55 \times 55 + (5^5 - 5)/5) \\
&:= 66 \times 66 - (666 + 6 \times 6) \\
&:= 7 + (7 \times (7 \times 77 - 7) - 77) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) - ((8 + 8)/8)) \\
&:= 9 + (9 \times ((9 + 9) \times (9 + 9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3655 &:= ((1 + 1 + 1) \times (1 + 11 \times 111)) - 11 \\
&:= (2^{2 \times (2+2+2)}) - ((22 - 2/2)^2) \\
&:= 3 + (33/3 \times (333 - 3/3)) \\
&:= 4 + (((4 + 4)^4) - (444 + 4/4)) \\
&:= 5^5 + (555 - 5 \times 5) \\
&:= (66/6 + 6) \times (6 \times 6 \times 6 - 6/6) \\
&:= 7 + ((7 \times 7 - 7/7) \times (77 - 7/7)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) - 8/8) \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9) + 9 \times 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3656 &:= ((1 + 1 + 1) \times (11 \times 111 - (1 + 1))) - 1 \\
&:= 2 \times (2^{22/2} - 222) + 2 \\
&:= ((33 \times 333 - 3)/3) - 3 - 3 \\
&:= 4 + (((4 + 4)^4) - 444) \\
&:= 5 + (55 \times 55 + (5^5 + 5)/5) \\
&:= 6 + ((6 - 6/6) \times (((6 \times 6/(6 + 6))^6) + 6/6)) \\
&:= 7 \times 7 \times 77 + (((7 - 777)/7) - 7) \\
&:= 8 + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= 9 + ((9 - (9 + 9)/9) \times (((9 + 9)/9)^9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3657 &:= (1 + 1 + 1) \times (11 \times 111 - (1 + 1)) \\
&:= 2 + (2^{2 \times (2+2+2)}) - ((22 - 2/2)^2) \\
&:= (33 \times 333/3) - 3 - 3 \\
&:= 4 + (((4 + 4)^4) - 444) + 4/4 \\
&:= 5 + ((5^5 + 5 + 5)/5 + 55 \times 55) \\
&:= 6 + (((6 - 6/6) \times ((6 \times 6/(6 + 6))^6) + 6) \\
&:= 7 \times (7 \times 77 - 7 - 7) - (77/7 + 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) + 8/8) \\
&:= 9 + ((9/9 + 9 + 9) \times (999/9 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3658 &:= 1 + ((1 + 1 + 1) \times (11 \times 111 - (1 + 1))) \\
&:= 2 + (2 \times ((2^{22/2} - 222) + 2)) \\
&:= ((33 \times 333 + 3)/3) - 3 - 3 \\
&:= 4 + (((4 + 4)/4 - 444) + ((4 + 4)^4)) \\
&:= 5^5 + (555 - (55 + 55)/5) \\
&:= (((6 + 6)/6)^{6+6}) - ((6 \times (66 + 6)) + 6) \\
&:= 77/7 + (7 \times (7 \times 77 - 7) - 77) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) + ((8 + 8)/8)) \\
&:= 9 + (((9/9 + 9) \times ((9 \times 9 \times 9 - 9)/(9 + 9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3659 &:= ((1 + 1 + 1) \times (11 \times 111 - 1)) - 1 \\
&:= (2 \times (2^{22/2} + 2)) - ((22 - 2/2)^2) \\
&:= ((33 \times 333 - 3)/3) - 3 \\
&:= 4 + (((4 + 4)^4) - (444 + 4/4)) + 4 \\
&:= 5 + ((55 \times 55 + (5^5 - 5)/5) + 5) \\
&:= (6 \times 6 \times (6 \times 6 + 66)) - (6/6 + 6 + 6) \\
&:= 7 + ((7 \times 7 \times 77 - ((7 + 7)/7)^7) + 7) \\
&:= 88/8 + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= 9 + ((9/9 + 9) \times ((9 \times 9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3660 &:= (1 + 1 + 1) \times (11 \times 111 - 1) \\
&:= 2 \times (((2^{22/2} - 222) + 2) + 2) \\
&:= (33 \times 333/3) - 3 \\
&:= 4 + (((4 + 4)^4) - 444) + 4 \\
&:= 5 + ((555 - 5 \times 5) + 5^5) \\
&:= (6 - 66) \times (6 - (66 + 6/6)) \\
&:= 7 \times 7 \times 77 - (777 + 7 + 7)/7 \\
&:= ((88 + 8)/8) + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= (99/9 + 9) \times ((999/9 - 9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3661 &:= 1 + ((1 + 1 + 1) \times (11 \times 111 - 1)) \\
&:= (222/2 \times (22/2 + 22)) - 2 \\
&:= (33 \times 333 - (3 + 3))/3 \\
&:= 4 + (((4 + 4)^4) - 444) + 4/4 + 4 \\
&:= 55 \times 55 + ((55 + 5^5)/5) \\
&:= (6 \times 6 \times (6 \times 6 + 66)) - 66/6 \\
&:= 7 \times (7 \times 77 - 7 - 7) - (7 + 7) \\
&:= (8 - 8/8) \times (8 \times 8 \times 8 + 88/8) \\
&:= 9 + ((99/9) \times (((9 + 9) \times (9 + 9) - 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3662 &:= (11 \times (1 + 1 + 1) \times 111) - 1 \\
&:= ((222 \times (22/2 + 22)) - 2)/2 \\
&:= (33 \times 333 - 3)/3 \\
&:= ((4 + 4)^4) + ((44 - 4)/4 - 444) \\
&:= 55 \times 55 + ((55 + 5^5 + 5)/5) \\
&:= (6 - 66)/6 + (6 \times 6 \times (6 \times 6 + 66)) \\
&:= 7 \times 7 \times 77 - 777/7 \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8) + 8)) - ((8 + 8)/8)) + 8) \\
&:= 99 + (((9 + 9) \times (99 + 99)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3663 &:= 11 \times (1 + 1 + 1) \times 111 \\
&:= 222/2 \times (22/2 + 22) \\
&:= 33 \times 333/3 \\
&:= 44/4 + (((4 + 4)^4) - 444) \\
&:= 5^5 + (555 - (((55 + 5)/5) + 5)) \\
&:= 66/6 \times 666 \times 6/(6 + 6) \\
&:= 7 \times 7 \times 77 + ((7 - 777)/7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8) + 8)) - 8/8) + 8) \\
&:= 99 + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3664 &:= 1 + (11 \times (1 + 1 + 1) \times 111) \\
&:= 2 \times (2 \times (2 \times (22^2 - (22 + 2 + 2)))) \\
&:= (33 \times 333 + 3)/3 \\
&:= 4 \times ((4 \times (4^4 - 4 \times 4)) - 44) \\
&:= 5^5 + (555 - (55/5 + 5)) \\
&:= (((6 + 6)/6)^{6+6}) - (6 \times (66 + 6)) \\
&:= 7 \times (7 \times 77 - 7 - 7) - 77/7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) + 8) \\
&:= 9/9 + (((9 + 9) \times (99 + 99)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3665 &:= 1 + (1 + (11 \times (1 + 1 + 1) \times 111)) \\
&:= 2 + (222/2 \times (22/2 + 22)) \\
&:= 3 + ((33 \times 333 - 3)/3) \\
&:= 4/4 + (4 \times ((4 \times (4^4 - 4 \times 4)) - 44)) \\
&:= 5^5 + ((5 + 5) \times (55 - 5/5)) \\
&:= (6 \times 6 \times (6 \times 6 + 66)) - 6/6 - 6 \\
&:= ((7 - 77)/7) + 7 \times (7 \times 77 - 7 - 7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8) + 8)) + 8/8) + 8) \\
&:= 9 \times 9 + ((9 - (9 + 9)/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3666 &:= (1 + 1 + 1) \times (1 + 11 \times 111) \\
&:= 2 \times (((2 \times 22) - 2/2)^2) - 2^{2+2} \\
&:= 3 + (33 \times 333/3) \\
&:= 4 + (((44 - 4)/4 - 444) + ((4 + 4)^4)) \\
&:= 5 + (((55 + 5^5)/5) + 55 \times 55) \\
&:= (6 \times 6 \times (6 \times 6 + 66)) - 6 \\
&:= (7/7 + 77) \times (7 \times 7 - (7 + 7)/7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8) + 8)) + ((8 + 8)/8)) + 8) \\
&:= 999/9 + (((9 + 9) \times (99 + 99)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3667 &:= 1 + ((1 + 1 + 1) \times (1 + 11 \times 111)) \\
&:= 2 + ((222/2 \times (22/2 + 22)) + 2) \\
&:= 3 + ((33 \times 333 + 3)/3) \\
&:= 4 + ((44/4 - 444) + ((4 + 4)^4)) \\
&:= 5^5 + (555 - (55 + 5 + 5)/5) \\
&:= 6/6 + ((6 \times 6 \times (6 \times 6 + 66)) - 6) \\
&:= 7 \times (7 \times 77 - 7 - 7) - (7/7 + 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) + (88/8)) \\
&:= (9/9 + 9 + 9) \times (((999 + 9)/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3668 &:= 1 + (1 + ((1 + 1 + 1) \times (1 + 11 \times 111))) \\
&:= (2^{2+2} - 2) \times (22^2 - 222) \\
&:= 3 + (((33 \times 333 - 3)/3) + 3) \\
&:= 4 \times 4 + (((4 + 4)^4) - 444) \\
&:= 5^5 + (555 - ((55 + 5)/5)) \\
&:= (6 + 6)/6 + ((6 \times 6 \times (6 \times 6 + 66)) - 6) \\
&:= 7 \times (7 \times 77 - 7 - 7) - 7 \\
&:= (8 - 8/8) \times (((88 + 8)/8) + 8 \times 8 \times 8) \\
&:= (9 \times (99 + 9 \times 9)) + (((9 + 9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3669 &:= (1 + 1 + 1) \times (1 + (1 + 11 \times 111)) \\
&:= (2/2 + 2) \times ((22/2 \times 222/2) + 2) \\
&:= 3 + ((33 \times 333/3) + 3) \\
&:= 4 \times 4 + (((4 + 4)^4) - 444) + 4/4 \\
&:= 5^5 + (555 - (55/5)) \\
&:= 6 + ((66/6) \times 666 \times 6/(6 + 6)) \\
&:= 7 + (7 \times 7 \times 77 - 777/7) \\
&:= 8 + ((8 - 8/8) \times (8 \times 8 \times 8 + 88/8)) \\
&:= 9 + ((99/9 + 9) \times ((999/9 - 9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3670 &:= 1 + ((1 + 1 + 1) \times (1 + (1 + 11 \times 111))) \\
&:= (22 \times (((22/2 + 2)^2) - 2)) - 2 - 2 \\
&:= 3 + (((33 \times 333 + 3)/3) + 3) \\
&:= (44 - 4)/4 \times (444/4 + 4^4) \\
&:= 5^5 + (555 - 5 - 5) \\
&:= (6 \times 6 \times (6 \times 6 + 66)) - (6 + 6)/6 \\
&:= 7 + (((7 - 777)/7) + 7 \times 7 \times 77) \\
&:= 88 + (8 \times 8 \times (8 \times 8 - 8) - ((8 + 8)/8)) \\
&:= 999 + (99 \times (9 + 9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3671 &:= 11 + ((1 + 1 + 1) \times (11 \times 111 - 1)) \\
&:= (22/2)^2 + ((2^{2+2} \times 222) - 2) \\
&:= 3 \times 3 + ((33 \times 333 - 3)/3) \\
&:= ((44/4 + 4) \times (4^4 - 44/4)) - 4 \\
&:= 5^5 + ((555 - 5 - 5) + 5/5) \\
&:= (6 \times 6 \times (6 \times 6 + 66)) - 6/6 \\
&:= 7 + (7 \times (7 \times 77 - 7 - 7) - (77/7)) \\
&:= 88 + (8 \times 8 \times (8 \times 8 - 8) - 8/8) \\
&:= 999 + (99 \times (9 + 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3672 &:= (1 + 1 + 1) \times (1 + (1 + (1 + 11 \times 111))) \\
&:= (22 \times (((22/2 + 2)^2) - 2)) - 2 \\
&:= (33 + 3) \times (3 \times 33 + 3) \\
&:= 4 + (((4 + 4)^4) - 444) + 4 \times 4 \\
&:= 5^5 + (((5 + 5)/5 - 5 - 5) + 555) \\
&:= 6 \times 6 \times (6 \times 6 + 66) \\
&:= 7 \times 7 \times 77 - (7777/77) \\
&:= 88 + 8 \times 8 \times (8 \times 8 - 8) \\
&:= 999 + 99 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3673 &:= (11 \times (1 + (1 + 1 + 1) \times 111)) - 1 \\
&:= (22/2)^2 + (2^{2+2} \times 222) \\
&:= 3 \times 3 + ((33 \times 333 + 3)/3) \\
&:= 4 + (((4 + 4)^4) - 444) + 4 \times 4 + 4/4 \\
&:= 5^5 + (555 - ((5 + 5)/5 + 5)) \\
&:= 6/6 + (6 \times 6 \times (6 \times 6 + 66)) \\
&:= 7 \times (7 \times 77 - 7 - 7) - (7 + 7)/7 \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 - 8) + 88) \\
&:= 9/9 + (99 \times (9 + 9 + 9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3674 &:= 11 \times (1 + (1 + 1 + 1) \times 111) \\
&:= 22 \times (((22/2 + 2)^2) - 2) \\
&:= 33/3 \times (333 + 3/3) \\
&:= 4 + ((44 - 4)/4 \times (444/4 + 4^4)) \\
&:= 5^5 + (555 - (5/5 + 5)) \\
&:= (6 + 6)/6 + (6 \times 6 \times (6 \times 6 + 66)) \\
&:= 7 \times (7 \times 77 - 7 - 7) - 7/7 \\
&:= 88 + (8 \times 8 \times (8 \times 8 - 8) + ((8 + 8)/8)) \\
&:= 99/9 \times (((9 + 9) \times (9 + 9) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3675 &:= 1 + (11 \times (1 + (1 + 1 + 1) \times 111)) \\
&:= 2/2 + (22 \times (((22/2 + 2)^2) - 2)) \\
&:= 3 + ((33 + 3) \times (3 \times 33 + 3)) \\
&:= (44/4 + 4) \times (4^4 - 44/4) \\
&:= 5^5 + (5 + 5) \times 55 \\
&:= (6 - 6/6) \times (((6 \times 6/(6 + 6))^6) + 6) \\
&:= 7 \times (7 \times 77 - (7 + 7)) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8) + 8)) + (88/8)) + 8) \\
&:= 999/9 + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3676 &:= 1 + (1 + (11 \times (1 + (1 + 1 + 1) \times 111))) \\
&:= 2 + (22 \times (((22/2 + 2)^2) - 2)) \\
&:= 3333 + ((3/3 + 3 + 3)^3) \\
&:= ((4 + 4) \times (444 + 4 \times 4)) - 4 \\
&:= 5^5 + ((5 + 5) \times 55 + 5/5) \\
&:= 6 + ((6 \times 6 \times (6 \times 6 + 66)) - ((6 + 6)/6)) \\
&:= 7/7 + 7 \times (7 \times 77 - 7 - 7) \\
&:= 8 + ((8 - 8/8) \times (((88 + 8)/8) + 8 \times 8 \times 8)) \\
&:= ((999 + 9)/9) + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3677 &:= 11 + ((1 + 1 + 1) \times (1 + 11 \times 111)) \\
&:= (((2 \times 2 \times 22 - 2)^2) + 2)/2 - 22 \\
&:= 3 + (33/3 \times (333 + 3/3)) \\
&:= 4/4 + (((4 + 4) \times (444 + 4 \times 4)) - 4) \\
&:= 5^5 + (((5 + 5)/5 - 5) + 555) \\
&:= 6 + ((6 \times 6 \times (6 \times 6 + 66)) - 6/6) \\
&:= (7 + 7)/7 + 7 \times (7 \times 77 - 7 - 7) \\
&:= 8 + (((8 - 8/8) \times (8 \times 8 \times 8 + 88/8)) + 8) \\
&:= 9 + (((9 + 9)/9)^{99/9} + (9 \times (99 + 9 \times 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3678 &:= (1 + 1) \times (111 + ((1 + 11)^{1+1+1})) \\
&:= 2 + ((22 \times (((22/2 + 2)^2) - 2)) + 2) \\
&:= 3 + (((33 + 3) \times (3 \times 33 + 3)) + 3) \\
&:= ((4 + 4) \times (444 + 4 \times 4)) - (4 + 4)/4 \\
&:= 5^5 + (555 - (5 + 5)/5) \\
&:= 6 + (6 \times 6 \times (6 \times 6 + 66)) \\
&:= (7 + 7 + 7)/7 + 7 \times (7 \times 77 - 7 - 7) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) - ((8 + 8)/8)) + 88) \\
&:= ((9 + 9)/9) \times (((9999 - 9)/9) + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3679 &:= 1 + ((1 + 1) \times (111 + ((1 + 11)^{1+1+1}))) \\
&:= 2 + (((((2 \times 2 \times 22 - 2)^2) + 2)/2) - 22) \\
&:= 3 + (((3/3 + 3 + 3)^3) + 3333) \\
&:= ((4 + 4) \times (444 + 4 \times 4)) - 4/4 \\
&:= 5^5 + (555 - 5/5) \\
&:= 6 + ((6 \times 6 \times (6 \times 6 + 66)) + 6/6) \\
&:= 77/7 + (7 \times (7 \times 77 - 7 - 7) - 7) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) - 8/8) + 88) \\
&:= 9 + ((99 \times (9 + 9 + 9) - ((9 + 9)/9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3680 &:= 11 + ((1 + 1 + 1) \times (1 + (1 + 11 \times 111))) \\
&:= 2 \times (2 \times (2 \times (22^2 - (22 + 2)))) \\
&:= 3 + ((33/3 \times (333 + 3/3)) + 3) \\
&:= (4 + 4) \times (444 + 4 \times 4) \\
&:= 5^5 + 555 \\
&:= (6^{6-6/6}) - (((6 + 6)/6)^{6+6}) \\
&:= 7 + (7 \times (7 \times 77 - 7 - 7) - ((7 + 7)/7)) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) + 88) \\
&:= 9 + ((99 \times (9 + 9 + 9) - 9/9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3681 &:= 1 + (11 + ((1 + 1 + 1) \times (1 + (1 + 11 \times 111)))) \\
&:= 2/2 + (2 \times (2 \times (2 \times (22^2 - (22 + 2)))))) \\
&:= 3 \times (((33 \times 3^3) + 333) + 3) \\
&:= 4/4 + ((4 + 4) \times (444 + 4 \times 4)) \\
&:= 5^5 + (555 + 5/5) \\
&:= 6 + ((6 - 6/6) \times (((6 \times 6/(6 + 6))^6) + 6)) \\
&:= 7 + (7 \times (7 \times 77 - 7 - 7) - 7/7) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) + 8/8) + 88) \\
&:= 9 + (99 \times (9 + 9 + 9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3682 &:= ((1 + 1 + 1) \times ((11 \times (1 + 111)) - 1)) - 11 \\
&:= 2 + (2 \times (2 \times (2 \times (22^2 - (22 + 2)))))) \\
&:= (3 \times (3 + 3)) + ((33 \times 333 + 3)/3) \\
&:= (4 + 4)/4 + ((4 + 4) \times (444 + 4 \times 4)) \\
&:= 5^5 + (555 + (5 + 5)/5) \\
&:= ((66 - 6)/6) + (6 \times 6 \times (6 \times 6 + 66)) \\
&:= 7 + 7 \times (7 \times 77 - 7 - 7) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) + ((8 + 8)/8)) + 88) \\
&:= 9 + ((99 \times (9 + 9 + 9) + 999) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3683 &:= (11 \times (1 + (1 + (1 + 1 + 1) \times 111))) - 1 - 1 \\
&:= 22^2 + ((2 \times (2 \times (22 - 2))^2) - 2/2) \\
&:= 3 \times 3 + (33/3 \times (333 + 3/3)) \\
&:= 4 + (((4 + 4) \times (444 + 4 \times 4)) - 4/4) \\
&:= 5 + ((555 - (5 + 5)/5) + 5^5) \\
&:= 66/6 + (6 \times 6 \times (6 \times 6 + 66)) \\
&:= 7 + (7 \times (7 \times 77 - 7 - 7) + 7/7) \\
&:= 88 + (8 \times 8 \times (8 \times 8 - 8) + (88/8)) \\
&:= 99 + ((9 - (9 + 9)/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3684 &:= (11 \times (1 + (1 + (1 + 1 + 1) \times 111))) - 1 \\
&:= 22^2 + (2 \times (2 \times (22 - 2))^2) \\
&:= 3 + (((33 + 3) \times (3 \times 33 + 3)) + 3 \times 3) \\
&:= 4 + ((4 + 4) \times (444 + 4 \times 4)) \\
&:= 5 + ((555 - 5/5) + 5^5) \\
&:= 6 + ((6 \times 6 \times (6 \times 6 + 66)) + 6) \\
&:= 7 + (7 \times (7 \times 77 - 7 - 7) + ((7 + 7)/7)) \\
&:= 88 + (8 \times 8 \times (8 \times 8 - 8) + ((88 + 8)/8)) \\
&:= 9 + (((9 + 9) \times (99 + 99)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3685 &:= 11 \times (1 + (1 + (1 + 1 + 1) \times 111)) \\
&:= (((2 \times 2 \times 22 - 2)^2) - 22)/2 - 2 \\
&:= 33/3 \times ((333 - 3/3) + 3) \\
&:= 4 + (((4 + 4) \times (444 + 4 \times 4)) + 4/4) \\
&:= 5 + (555 + 5^5) \\
&:= (66 + 6/6) \times (66 - 66/6) \\
&:= 77/7 \times (7 \times 7 \times 7 - (7/7 + 7)) \\
&:= 88/8 \times (((8 - 8/8)^{88/8-8}) - 8) \\
&:= 99/9 \times ((9 + 9) \times (9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3686 &:= 1 + (11 \times (1 + (1 + (1 + 1 + 1) \times 111))) \\
&:= 2 + ((2 \times (2 \times (22 - 2))^2) + 22^2) \\
&:= 3^3 + (((33 \times 333 - 3)/3) - 3) \\
&:= 4 + (((4 + 4) \times (444 + 4 \times 4)) + (4 + 4)/4) \\
&:= 5 + (555 + 5^5 + 5/5) \\
&:= 6 + ((6^{6-6/6}) - (((6 + 6)/6)^{6+6})) \\
&:= 77/7 + 7 \times (7 \times 77 - 7 - 7) \\
&:= 88 + ((8 - 8/8) \times (8 \times 8 \times 8 + (8 + 8)/8)) \\
&:= (99 - ((9 + 9)/9)) \times ((99/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3687 &:= 1 + (1 + (11 \times (1 + (1 + (1 + 1 + 1) \times 111)))) \\
&:= (((2 \times 2 \times 22 - 2)^2) - 22)/2 \\
&:= 3 \times ((33/3)^3 - (3 \times 33 + 3)) \\
&:= 4 + (((4 + 4) \times (444 + 4 \times 4)) - 4/4) + 4 \\
&:= 5 + ((555 + (5 + 5)/5) + 5^5) \\
&:= 6 + (((6 - 6/6) \times (((6 \times 6)/(6 + 6))^6) + 6) + 6) \\
&:= (77 + 7)/7 + 7 \times (7 \times 77 - 7 - 7) \\
&:= 888/8 + (8 \times 8 \times (8 \times 8 - 8) - 8) \\
&:= (9 \times ((9 + 9) \times (9 + 9) + 99)) - (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3688 &:= ((1 + 1 + 1) \times (1 + (11 \times (1 + 111)))) - 11 \\
&:= 2 \times (2 \times ((2 \times (22^2 - 22)) - 2)) \\
&:= 3 + (33/3 \times ((333 - 3/3) + 3)) \\
&:= 4 + (((4 + 4) \times (444 + 4 \times 4)) + 4) \\
&:= 5 + (((555 - (5 + 5)/5) + 5^5) + 5) \\
&:= 66 \times 66 - (666 + (6 + 6)/6) \\
&:= 7 \times 7 \times 77 - (7/7 + 77 + 7) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) + 88) + 8) \\
&:= ((9 + 9)/9) \times ((9 + 9) \times (99 + 9) - (9/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3689 &:= ((11111 - 11)/(1 + 1 + 1)) - 11 \\
&:= 2 + (((2 \times 2 \times 22 - 2)^2) - 22)/2 \\
&:= 3^3 + ((33 \times 333 - 3)/3) \\
&:= 44 + ((44 + 4/4) \times (4 - 4/4)^4) \\
&:= 5 + (((555 - 5/5) + 5^5) + 5) \\
&:= (66/6 + 6) \times (6 \times 6 \times 6 + 6/6) \\
&:= 7 \times 7 \times 77 - 77 - 7 \\
&:= (8 - 8/8) \times (((8 \times 8 \times 8 - 8/8) + 8) + 8) \\
&:= ((9 - 9/9) + 9) \times (9 \times 9 \times 9 - ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3690 &:= (1 + 1 + 1) \times ((11 \times (1 + 111)) - (1 + 1)) \\
&:= 2 \times (((2 \times 22) - 2/2)^2) - (2 + 2) \\
&:= 3^3 + (33 \times 333/3) \\
&:= (44 - 4)/4 \times ((4/4 + 4)^4 - 4^4) \\
&:= 5 + ((555 + 5^5) + 5) \\
&:= 66 \times 66 - 666 \\
&:= 7/7 + (7 \times 7 \times 77 - (77 + 7)) \\
&:= (8 - (8 + 8)/8) \times (8 \times 88 - (8/8 + 88)) \\
&:= (9 \times 9 + 9) \times ((9 \times 9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3691 &:= 1 + ((1 + 1 + 1) \times ((11 \times (1 + 111)) - (1 + 1))) \\
&:= 2 + (((2 \times 2 \times 22 - 2)^2) - 22)/2 + 2 \\
&:= 3^3 + ((33 \times 333 + 3)/3) \\
&:= 44/4 + ((4 + 4) \times (444 + 4 \times 4)) \\
&:= 5^5 + (555 + (55/5)) \\
&:= 6/6 + (66 \times 66 - 666) \\
&:= (7 + 7)/7 + (7 \times 7 \times 77 - (77 + 7)) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 - 8) + (88/8)) + 88) \\
&:= 9/9 + ((9 \times 9 + 9) \times ((9 \times 9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3692 &:= ((1 + 1 + 1) \times ((11 \times (1 + 111)) - 1)) - 1 \\
&:= 2 \times ((2 \times (2 \times (22^2 - 22))) - 2) \\
&:= (((33 \times (333 + 3)) - 3)/3) - 3 \\
&:= (44 \times ((4 \times (4 \times 4 + 4)) + 4)) - 4 \\
&:= 5^5 + (((55 + 5)/5) + 555) \\
&:= (6 + 6)/6 + (66 \times 66 - 666) \\
&:= 7 + (77/7 \times (7 \times 7 \times 7 - (7/7 + 7))) \\
&:= (88/((8 + 8)/8)) + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= 9 + (((9 - (9 + 9)/9) \times ((9 + 9)/9)^9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3693 &:= (1 + 1 + 1) \times ((11 \times (1 + 111)) - 1) \\
&:= (2 \times (((2 \times 22) - 2/2)^2) - 2) - 2/2 \\
&:= (33 \times ((333 + 3)/3)) - 3 \\
&:= 4/4 + ((44 \times ((4 \times (4 \times 4 + 4)) + 4)) - 4) \\
&:= 5^5 + ((5^5 - 5 - 5)/5 - 55) \\
&:= 66 + (66 \times 66 - ((6 \times 6)/(6 + 6))^6) \\
&:= 7 + (7 \times (7 \times 77 - 7 - 7) + (77/7)) \\
&:= 8 \times 8 \times (8 \times 8 - 8) + ((888 - (8 + 8))/8) \\
&:= 9 + (((9 + 9) \times (99 + 99)) + 999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3694 &:= 1 + ((1 + 1 + 1) \times ((11 \times (1 + 111)) - 1)) \\
&:= 2 \times (((2 \times 22) - 2/2)^2) - 2 \\
&:= (((33 \times (333 + 3)) + 3)/3) - 3 \\
&:= (44 \times ((4 \times (4 \times 4 + 4)) + 4)) - (4 + 4)/4 \\
&:= 5^5 + ((5^5 - 5)/5 - 55) \\
&:= (((6 + 6)/6)^{6+6}) - (6 \times 66 + 6) \\
&:= 7 \times 7 \times 77 - ((7 + 7)/7 + 77) \\
&:= (888 - 8)/8 + 8 \times 8 \times (8 \times 8 - 8) \\
&:= 9 + ((99/9) \times ((9 + 9) \times (9 + 9) + (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3695 &:= (11 \times ((1 + 1 + 1) \times (1 + 111))) - 1 \\
&:= (((2 \times 2 \times 22 - 2)^2) - 2)/2 - 2 \\
&:= ((33 \times (333 + 3)) - 3)/3 \\
&:= (44 \times ((4 \times (4 \times 4 + 4)) + 4)) - 4/4 \\
&:= 5^5 + (5^5/5 - 55) \\
&:= 6 + ((66/6 + 6) \times (6 \times 6 \times 6 + 6/6)) \\
&:= 7 \times 7 \times 77 - 7/7 - 77 \\
&:= 888/8 + 8 \times 8 \times (8 \times 8 - 8) \\
&:= ((9 \times 9 + 9)/(9 + 9)) \times ((9 \times 9 \times 9 + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3696 &:= 11 \times ((1 + 1 + 1) \times (1 + 111)) \\
&:= 2 \times (2 \times (2 \times (22^2 - 22))) \\
&:= 33 \times ((333 + 3)/3) \\
&:= 44 \times ((4 \times (4 \times 4 + 4)) + 4) \\
&:= 5^5 + ((5^5 + 5)/5 - 55) \\
&:= 6 + (66 \times 66 - 666) \\
&:= 77 \times (7 \times 7 - 7/7) \\
&:= (8 \times 8 - 8) \times (((8 + 8)/8) + 8 \times 8) \\
&:= 99/9 \times ((9 + 9) \times (9 + 9) + (99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3697 &:= 1 + (11 \times ((1 + 1 + 1) \times (1 + 111))) \\
&:= (((2 \times 2 \times 22 - 2)^2) - 2)/2 \\
&:= ((33 \times (333 + 3)) + 3)/3 \\
&:= 4/4 + (44 \times ((4 \times (4 \times 4 + 4)) + 4)) \\
&:= 5^5 + ((5^5 + 5 + 5)/5 - 55) \\
&:= 6 + ((66 \times 66 - 666) + 6/6) \\
&:= 7/7 + (77 \times (7 \times 7 - 7/7)) \\
&:= 8/8 + ((8 \times 8 - 8) \times (((8 + 8)/8) + 8 \times 8)) \\
&:= 99 \times (9 + 9 + 9) + (((9 + 9)/9)^{9/9+9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3698 &:= 1 + (1 + (11 \times ((1 + 1 + 1) \times (1 + 111)))) \\
&:= 2 \times (((2 \times 22) - 2/2)^2) \\
&:= 3 + (((33 \times (333 + 3)) - 3)/3) \\
&:= (4 + 4)/4 + (44 \times ((4 \times (4 \times 4 + 4)) + 4)) \\
&:= 5 + (((5^5 - 5 - 5)/5 - 55) + 5^5) \\
&:= 6 + ((66 \times 66 - 666) + ((6 + 6)/6)) \\
&:= (7 + 7)/7 + (77 \times (7 \times 7 - 7/7)) \\
&:= (8 + 8)/8 + ((8 \times 8 - 8) \times (((8 + 8)/8) + 8 \times 8)) \\
&:= (9 \times (((9 + 9)/9)^9) - 99) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3699 &:= (1 + 1 + 1) \times (1 + (11 \times (1 + 111))) \\
&:= (((2 \times 2 \times 22 - 2)^2) + 2)/2 \\
&:= 3 + (33 \times ((333 + 3)/3)) \\
&:= 4 + ((44 \times ((4 \times (4 \times 4 + 4)) + 4)) - 4/4) \\
&:= 5 + (((5^5 - 5)/5 - 55) + 5^5) \\
&:= (((6 + 6)/6)^{6+6}) - (6 \times 66 + 6/6) \\
&:= 7 \times 7 \times 77 + (((7 + 7 + 7)/7) - 77) \\
&:= (88/8 + 8 + 8) \times ((8 \times (8 + 8) + 8/8) + 8) \\
&:= (9 \times (((9 + 9)/9)^9) - 99) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3700 &:= (11111 - 11)/(1 + 1 + 1) \\
&:= 2 + (2 \times (((2 \times 22) - 2/2)^2)) \\
&:= 3 + (((33 \times (333 + 3)) + 3)/3) \\
&:= 4 + (44 \times ((4 \times (4 \times 4 + 4)) + 4)) \\
&:= 5 + ((5^5/5 - 55) + 5^5) \\
&:= (((6 + 6)/6)^{6+6}) - 6 \times 66 \\
&:= 77/7 + (7 \times 7 \times 77 - (77 + 7)) \\
&:= 888 + ((8 \times 8 \times 88 - 8)/(8 + 8/8)) \\
&:= (9/9 + 99) \times (((9/9 + 9 + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3701 &:= 1 + ((11111 - 11)/(1 + 1 + 1)) \\
&:= 2 + (((2 \times 2 \times 22 - 2)^2) + 2)/2 \\
&:= 3 + (((33 \times (333 + 3)) - 3)/3) + 3 \\
&:= 4 + ((44 \times ((4 \times (4 \times 4 + 4)) + 4)) + 4/4) \\
&:= 5 + (((5^5 + 5)/5 - 55) + 5^5) \\
&:= 6/6 + (((6 + 6)/6)^{6+6}) - 6 \times 66 \\
&:= 7 + (7 \times 7 \times 77 - ((7 + 7)/7 + 77)) \\
&:= (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - 88/8 \\
&:= (9 - (9 + 9)/9) \times (((9 + 9)/9)^9 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3702 &:= (1 + 1 + 1) \times (1 + (11 \times (1 + 111))) \\
&:= 2 \times (((2 \times 22) - 2/2)^2) + 2 \\
&:= 3 + ((33 \times ((333 + 3)/3)) + 3) \\
&:= ((4 + 4)/4 + 4) \times ((4/4 + 4)^4 - (4 + 4)) \\
&:= 5 + (((5^5 + 5 + 5)/5 - 55) + 5^5) \\
&:= (6 \times (6 \times (6 \times 6 + 66) + 6)) - 6 \\
&:= 7 + (7 \times 7 \times 77 - (7/7 + 77)) \\
&:= 8 + ((888 - 8)/8 + 8 \times 8 \times (8 \times 8 - 8)) \\
&:= 9 + (((9 + 9) \times (99 + 99)) + 999/9 + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3703 &:= (11111 - (1 + 1))/(1 + 1 + 1) \\
&:= 2 + (((((2 \times 2 \times 22 - 2)^2) + 2)/2) + 2) \\
&:= 3 + (((33 \times (333 + 3)) + 3)/3) + 3 \\
&:= (44/4 \times ((4 - 4/4)^4 + 4^4)) - 4 \\
&:= 5 \times 5 + ((555 - (5 + 5)/5) + 5^5) \\
&:= 6/6 + ((6 \times (6 \times (6 \times 6 + 66) + 6)) - 6) \\
&:= 7 + (77 \times (7 \times 7 - 7/7)) \\
&:= 8 + (8 \times 8 \times (8 \times 8 - 8) + 888/8) \\
&:= (9 \times (9 + 9) - 9/9) \times (99 + 99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3704 &:= (1 + 11111)/(1 + 1 + 1) \\
&:= 2 + (2 \times (((2 \times 22) - 2/2)^2) + 2) \\
&:= 3 \times 3 + (((33 \times (333 + 3)) - 3)/3) \\
&:= 4 + ((44 \times ((4 \times (4 \times 4 + 4)) + 4)) + 4) \\
&:= 5 \times 5 + ((555 - 5/5) + 5^5) \\
&:= (6 + 6)/6 + ((6 \times (6 \times (6 \times 6 + 66) + 6)) - 6) \\
&:= 7 + ((77 \times (7 \times 7 - 7/7)) + 7/7) \\
&:= (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - 8 \\
&:= 9 + (((9 \times 9 + 9)/9 + 9) \times ((9 \times 9 \times 9 + 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3705 &:= 1 + ((1 + 11111)/(1 + 1 + 1)) \\
&:= 2 + (((((2 \times 2 \times 22 - 2)^2) + 2)/2) + 2) + 2 \\
&:= 3 \times (((33/3)^3 - 3 \times 33) + 3) \\
&:= (44/4 + 4) \times (4^4 - (4/4 + 4 + 4)) \\
&:= 5 \times 5 + (555 + 5^5) \\
&:= (6 - 6/6) \times (((6 \times 6/(6 + 6))^6) + 6) + 6 \\
&:= 7 + ((77 \times (7 \times 7 - 7/7)) + ((7 + 7)/7)) \\
&:= (8/8 + 8 \times 8) \times ((8/8 - 8) + 8 \times 8) \\
&:= (9 \times (((9 + 9)/9)^9) - 99) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3706 &:= 1 + (1 + ((1 + 11111)/(1 + 1 + 1))) \\
&:= 2 \times (((2 \times 22) - 2/2)^2) + 2 \\
&:= 3 \times 3 + (((33 \times (333 + 3)) + 3)/3) \\
&:= (((4 + 4)/4 + 4) \times (4/4 + 4)^4) - 44 \\
&:= 5 \times 5 + (555 + 5^5 + 5/5) \\
&:= 6 + (((6 + 6)/6)^{6+6}) - 6 \times 66 \\
&:= 7 \times (7 \times 77 - 7) - (77/7 + 7) \\
&:= 8/8 + ((8/8 + 8 \times 8) \times ((8/8 - 8) + 8 \times 8)) \\
&:= (9 \times (((9 + 9)/9)^9) - 99) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3707 &:= 11 \times (1 + ((1 + 1 + 1) \times (1 + 111))) \\
&:= 22/2 \times (((22 + 2 + 2)^2) - 2)/2 \\
&:= 33/3 \times ((333 + 3/3) + 3) \\
&:= 44/4 \times ((4 - 4/4)^4 + 4^4) \\
&:= 5 \times 5 + ((555 + (5 + 5)/5) + 5^5) \\
&:= (6 \times (6 \times (6 \times 6 + 66) + 6)) - 6/6 \\
&:= 77/7 + (77 \times (7 \times 7 - 7/7)) \\
&:= 88/8 + ((8 \times 8 - 8) \times (((8 + 8)/8) + 8 \times 8)) \\
&:= (9 \times (((9 + 9)/9)^9) - 99) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3708 &:= 1 + (11 \times (1 + ((1 + 1 + 1) \times (1 + 111)))) \\
&:= 2 + (2 \times (((2 \times 22) - 2/2)^2) + 2) + 2 \\
&:= 333 + (3 \times 3 + 3 + 3)^3 \\
&:= 4 \times (4 \times (4^4 - 4) - (4 - 4/4)^4) \\
&:= (5/5 + 5) \times ((5^5 - 5 - 5)/5 - 5) \\
&:= 6 \times (6 \times (6 \times 6 + 66) + 6) \\
&:= 7 \times 7 \times 77 + ((77 + 7)/7 - 77) \\
&:= 888 + ((8 \times 8 \times 88 + 8)/(8 + 8/8)) \\
&:= (9 \times (((9 + 9)/9)^9) - 99) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3709 &:= 1 + (1 + (11 \times (1 + ((1 + 1 + 1) \times (1 + 111)))))) \\
&:= (((2 \times 2 \times 22 - 2)^2) + 22)/2 \\
&:= 3/3 + ((3 \times 3 + 3 + 3)^3 + 333) \\
&:= (((4^4 - 4)/4)^{(4+4)/4}) - (4^4 + 4) \\
&:= ((5/5 + 5) \times ((5^5 - 5)/5 - 5)) - 5 \\
&:= 6/6 + (6 \times (6 \times (6 \times 6 + 66) + 6)) \\
&:= 7 \times (7 \times 77 - 7) - (7/7 + 7 + 7) \\
&:= 8 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - (88/8)) \\
&:= 9/9 + ((9 \times (((9 + 9)/9)^9) - 99) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3710 &:= (((1 + 11^{1+1})/(1 + 1))^{1+1}) - 11 \\
&:= 2 \times (((((2 \times 22) - 2/2)^2) + 2) + 2) + 2 \\
&:= 3 + (33/3 \times ((333 + 3/3) + 3)) \\
&:= 4 + (((4 + 4)/4 + 4) \times (4/4 + 4)^4) - 44 \\
&:= 5 + ((555 + 5 \times 5) + 5^5) \\
&:= (6 + 6)/6 + (6 \times (6 \times (6 \times 6 + 66) + 6)) \\
&:= 7 \times (7 \times 77 - 7) - (7 + 7) \\
&:= (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - (8 + 8)/8 \\
&:= (9 - (9 + 9)/9) \times (((9 + 9)/9)^9 + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3711 &:= 1 + (((1 + 11^{1+1})/(1 + 1))^{1+1}) - 11 \\
&:= 2 + (((2 \times 2 \times 22 - 2)^2) + 22)/2 \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + 333) \\
&:= 4 + (44/4 \times ((4 - 4/4)^4 + 4^4)) \\
&:= 5 + (((555 + 5 \times 5) + 5^5) + 5/5) \\
&:= 66 + ((6 - 6/6) \times ((6 \times 6/(6 + 6))^6)) \\
&:= 7/7 + (7 \times (7 \times 77 - 7) - (7 + 7)) \\
&:= (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - 8/8 \\
&:= 9/9 + ((9 - (9 + 9)/9) \times (((9 + 9)/9)^9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3712 &:= 1 + (1 + (((1 + 11^{1+1})/(1 + 1))^{1+1}) - 11) \\
&:= 2 \times (2 \times (2 \times 222 + 22^2)) \\
&:= ((3/3 + 3)^3) \times (((3/3 + 3)^3) - (3 + 3)) \\
&:= 4 \times (4 \times (4^4 - ((4 \times 4 + 4) + 4))) \\
&:= 5^5 + (((5 + 5)/5)^5 + 555) \\
&:= ((6 + 6)/6)^6 \times (((6 + 6)/6)^6 - 6) \\
&:= 7 \times (7 \times 77 - 7) - (77 + 7)/7 \\
&:= 8 \times ((8 \times (8 \times 8 - 8) + 8) + 8) \\
&:= ((9 \times 9 - (99/9 + 9))^{(9+9)/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3713 &:= 11 + ((1 + 1 + 1) \times (1 + (1 + (11 \times (1 + 111)))))) \\
&:= 2 + (((2 \times 2 \times 22 - 2^2) + 22)/2) + 2 \\
&:= 3 + ((33/3 \times ((333 + 3/3) + 3)) + 3) \\
&:= (((4^4 - 4)/4)^{(4+4)/4}) - 4^4 \\
&:= 5 + ((5/5 + 5) \times ((5^5 - 5 - 5)/5 - 5)) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 + 66) + 6)) - 6/6) \\
&:= 7 \times (7 \times 77 - 7) - 77/7 \\
&:= 8/8 + (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) \\
&:= 9/9 + (((9 \times 9 - (99/9 + 9))^{(9+9)/9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3714 &:= 11 + ((11111 - (1 + 1))/(1 + 1 + 1)) \\
&:= (22 \times ((22/2 + 2)^2)) - 2 - 2 \\
&:= 3 + (((3 \times 3 + 3 + 3)^3 + 333) + 3) \\
&:= 4/4 + (((4^4 - 4)/4)^{(4+4)/4}) - 4^4 \\
&:= (5/5 + 5) \times ((5^5 - 5)/5 - 5) \\
&:= 6 + (6 \times (6 \times (6 \times 6 + 66) + 6)) \\
&:= ((7 - 77)/7) + 7 \times (7 \times 77 - 7) \\
&:= (8 + 8)/8 + (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) \\
&:= (9 \times (((9 + 9)/9)^9 - 99)) - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3715 &:= 11 + ((1 + 11111)/(1 + 1 + 1)) \\
&:= (22 \times ((22/2 + 2)^2)) - 2/2 - 2 \\
&:= (((3/3 + 3)^3) - 3)^{3-3/3} - 3 - 3 \\
&:= ((4 + 4)^4) + (((4^4 - 4)/4) - 444) \\
&:= ((5/5 + 5) \times (5^5/5 - 5)) - 5 \\
&:= ((66 - 6 + 6/6)^{(6+6)/6}) - 6 \\
&:= 7 \times (7 \times 77 - 7) - ((7 + 7)/7 + 7) \\
&:= 88/8 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - 8) \\
&:= (9 \times (((9 + 9)/9)^9 - 99)) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3716 &:= (1 + 1) \times ((11 \times (1 + 1 + 11))^{1+1}) - 1 \\
&:= (22 \times ((22/2 + 2)^2)) - 2 \\
&:= (3^3 \times (33 + 3)) + ((33/3 + 3)^3) \\
&:= (4 \times 4 \times (4^4 + 4)) - 444 \\
&:= (((55 + 5/5) + 5)^{(5+5)/5}) - 5 \\
&:= (6 \times (666 - 6 \times 6)) - ((6 + 6)/6)^6 \\
&:= 7 \times (7 \times 77 - 7) - (7/7 + 7) \\
&:= (8/(8 + 8)/8) + (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) \\
&:= (9 \times (((9 + 9)/9)^9 - 99)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3717 &:= ((1 + 1) \times (11 \times (1 + 1 + 11))^{1+1}) - 1 \\
&:= (22 \times ((22/2 + 2)^2)) - 2/2 \\
&:= 3 \times ((3 \times (3 \times 3^3 + 333)) - 3) \\
&:= (((4^4 - 4)/4) \times (((4^4 - 4)/4) - 4)) \\
&:= 5 + (((5 + 5)/5)^5 + 555) + 5^5 \\
&:= 6 + (((6 - 6/6) \times ((6 \times 6/(6 + 6))^6)) + 66) \\
&:= 7 \times (7 \times 77 - 7) - 7 \\
&:= (8 - 8/8) \times ((8 \times 8 \times 8 + 88/8) + 8) \\
&:= 9 \times (((9 + 9)/9)^9 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3718 &:= (1 + 1) \times (11 \times (1 + 1 + 11))^{1+1} \\
&:= 22 \times ((22/2 + 2)^2) \\
&:= ((3/3 + 3)^3 - 3)^{3-3/3} - 3 \\
&:= 4/4 + (((4^4 - 4)/4) \times (((4^4 - 4)/4) - 4)) \\
&:= 5^5 + (5^5/5 - ((5 + 5)/5)^5) \\
&:= 6 + (((6 + 6)/6)^6 \times (((6 + 6)/6)^6 - 6)) \\
&:= 7/7 + (7 \times (7 \times 77 - 7) - 7) \\
&:= 8 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - ((8 + 8)/8)) \\
&:= 9/9 + (9 \times (((9 + 9)/9)^9 - 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3719 &:= 1 + ((1 + 1) \times (11 \times (1 + 1 + 11))^{1+1}) \\
&:= 2/2 + (22 \times ((22/2 + 2)^2)) \\
&:= 3 + 3^3 \times (33 + 3) + (33/3 + 3)^3 \\
&:= ((44/4 + 4) \times (4^4 - 4 - 4)) - 4/4 \\
&:= 5 + ((5/5 + 5) \times ((5^5 - 5)/5 - 5)) \\
&:= 66/6 + (6 \times (6 \times (6 \times 6 + 66) + 6)) \\
&:= (7 + 7)/7 + (7 \times (7 \times 77 - 7) - 7) \\
&:= 8 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - 8/8) \\
&:= (9 + 9)/9 + (9 \times (((9 + 9)/9)^9 - 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3720 &:= (((1 + 11^{1+1})/(1 + 1))^{1+1}) - 1 \\
&:= 2 + (22 \times ((22/2 + 2)^2)) \\
&:= 3 + (3 \times (3 \times 333 - 3) + 3^{3+3}) \\
&:= (44/4 + 4) \times (4^4 - 4 - 4) \\
&:= (5/5 + 5) \times (5^5/5 - 5) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 + 66) + 6)) + 6) \\
&:= 7 + (7 \times (7 \times 77 - 7) - (77/7)) \\
&:= 8 + (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) \\
&:= (9/9 + 9) \times ((99 \times 99/(9 + 9 + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3721 &:= ((1 + 11^{1+1})/(1 + 1))^{1+1} \\
&:= (2^{2+2+2} - (2/2 + 2))^2 \\
&:= (((3/3 + 3)^3) - 3)^{3-3/3} \\
&:= (((4^4 + 4)/4 - 4)^{(4+4)/4}) \\
&:= ((55 + 5/5) + 5)^{(5+5)/5} \\
&:= (66 - 6 + 6/6)^{(6+6)/6} \\
&:= 7 \times (7 \times 77 - 7) - (7 + 7 + 7)/7 \\
&:= ((8 \times 8 - 88/8) + 8)^{(8+8)/8} \\
&:= (9 \times 9 - (99/9 + 9))^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3722 &:= 1 + (((1 + 11^{1+1})/(1 + 1))^{1+1}) \\
&:= 2 + ((22 \times ((22/2 + 2)^2)) + 2) \\
&:= 3^3 + (((33 \times (333 + 3)) - 3)/3) \\
&:= 4/4 + (((4^4 + 4)/4 - 4)^{(4+4)/4}) \\
&:= 5^5 + ((5^5 + 5 + 5)/5 - (5 \times 5 + 5)) \\
&:= 6/6 + (((66 - 6 + 6/6)^{(6+6)/6}) \\
&:= 7 \times (7 \times 77 - 7) - (7 + 7)/7 \\
&:= 8 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) + ((8 + 8)/8)) \\
&:= 9/9 + ((9 \times 9 - (99/9 + 9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3723 &:= 1 + (1 + (((1 + 11^{1+1})/(1 + 1))^{1+1})) \\
&:= 2 + ((2^{2+2+2} - (2/2 + 2))^2) \\
&:= 3 \times (((3 - 3/3)^{3 \times 3}) + 3^{3+3}) \\
&:= 4^4 + (((4 + 4)^4) - ((4/4 + 4)^4 + 4)) \\
&:= 5^5 + ((5^5 - 5 - 5)/5 - 5 \times 5) \\
&:= (6 + 6)/6 + ((66 - 6 + 6/6)^{(6+6)/6}) \\
&:= 7 \times (7 \times 77 - 7) - 7/7 \\
&:= 88/8 + (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) \\
&:= ((9 + 9 + 9)/9) \times (((9 + 9)/9)^9) + 9 \times 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3724 &:= 1 + (1 + (1 + (((1 + 11^{1+1})/(1 + 1))^{1+1}))) \\
&:= 2 + (((22 \times ((22/2 + 2)^2)) + 2) + 2) \\
&:= 3 + (((3/3 + 3)^3) - 3)^{3-3/3} \\
&:= 4 + ((44/4 + 4) \times (4^4 - 4 - 4)) \\
&:= 5^5 + ((5^5 - 5)/5 - 5 \times 5) \\
&:= 6 + (((6 + 6)/6)^6 \times (((6 + 6)/6)^6 - 6) + 6) \\
&:= 7 \times (7 \times 77 - 7) \\
&:= (8 - 8/8) \times (((88 + 8)/8) + 8 \times 8 \times 8) + 8) \\
&:= (99 - 9/9) \times ((99/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3725 &:= ((1 + 1 + 1) \times ((11 \times (1 + 1 + 111)) - 1)) - 1 \\
&:= 2 + (((2^{2+2+2} - (2/2 + 2))^2) + 2) \\
&:= 3^{3+3} + (3 \times 3 \times 333 - 3/3) \\
&:= 4 + (((4^4 + 4)/4 - 4)^{(4+4)/4}) \\
&:= 5 \times (5 \times 5 \times (5 \times 5 + 5) - 5) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 + 66) + 6)) + (66/6)) \\
&:= 7/7 + 7 \times (7 \times 77 - 7) \\
&:= 8 + ((8 - 8/8) \times ((8 \times 8 \times 8 + 88/8) + 8)) \\
&:= ((9 + 9) \times (99 + 99 + 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3726 &:= (1 + 1 + 1) \times ((11 \times (1 + 1 + 111)) - 1) \\
&:= ((2 \times 22) + 2) \times (2/2 + 2)^{2+2} \\
&:= 3 \times (3 \times (3 \times 3^3 + 333)) \\
&:= ((4 + 4)/4 + 4) \times ((4/4 + 4)^4 - 4) \\
&:= 5^5 + ((5^5 + 5)/5 - 5 \times 5) \\
&:= 6 \times 6 + (66 \times 66 - 666) \\
&:= (7 + 7)/7 + 7 \times (7 \times 77 - 7) \\
&:= 8 + (((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - ((8 + 8)/8)) + 8) \\
&:= (9 + 9) \times (99 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3727 &:= 1 + ((1 + 1 + 1) \times ((11 \times (1 + 1 + 111)) - 1)) \\
&:= 2 + (((2^{2+2+2} - (2/2 + 2))^2) + 2) + 2) \\
&:= 3 + ((3/3 + 3)^3 - 3)^{3-3/3} + 3 \\
&:= 4^4 + (((4 + 4)^4) - (4/4 + 4)^4) \\
&:= 5^5 + ((5^5 + 5 + 5)/5 - 5 \times 5) \\
&:= 6 + ((66 - 6 + 6/6)^{(6+6)/6}) \\
&:= (7 + 7 + 7)/7 + 7 \times (7 \times 77 - 7) \\
&:= 8 + (((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - 8/8) + 8) \\
&:= 9/9 + ((9 + 9) \times (99 + 99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3728 &:= (11 \times ((1+1+1) \times (1+1+111))) - 1 \\
&:= 2 \times (2 \times (2 \times (2 \times 222 + 22))) \\
&:= 33 + (((33 \times (333+3)) - 3)/3) \\
&:= 4 \times 44 + (4+4) \times 444 \\
&:= 5^5 + ((5^5 - (55+55))/5) \\
&:= 6 + (((66 - 6 + 6/6)^{(6+6)/6}) + 6/6) \\
&:= 77/7 + (7 \times (7 \times 77 - 7) - 7) \\
&:= 8 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) + 8) \\
&:= (9+9)/9 + ((9+9) \times (99+99+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3729 &:= 11 \times ((1+1+1) \times (1+1+111)) \\
&:= 22/2 + (22 \times ((22/2 + 2)^2)) \\
&:= 33 \times ((333 - 3)/3 + 3) \\
&:= ((4+4)^4) - (444/4 + 4^4) \\
&:= 5^5 + ((55 \times 55 - 5)/5) \\
&:= 6 \times 66 + 6666 \times 6 / (6+6) \\
&:= 7 + (7 \times (7 \times 77 - 7) - ((7+7)/7)) \\
&:= 8 + (((8 \times 8 - 88/8) + 8)^{(8+8)/8}) \\
&:= (99+9)/9 + (9 \times (((9+9)/9)^9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3730 &:= 1 + (11 \times ((1+1+1) \times (1+1+111))) \\
&:= 2 + (2 \times (2 \times (2 \times (2 \times 222 + 22)))) \\
&:= 3 \times 3 + (((3/3+3)^3 - 3)^{3-3/3}) \\
&:= 4 + (((4+4)/4 + 4) \times ((4/4 + 4)^4 - 4)) \\
&:= 5^5 + (55 \times (55/5)) \\
&:= (6 \times (6 - 66)) + (((6+6)/6)^{6+6}) - 6 \\
&:= 7 + (7 \times (7 \times 77 - 7) - 7/7) \\
&:= 8 + (((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) + ((8+8)/8)) + 8) \\
&:= 9 + ((9 \times 9 - (99/9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3731 &:= 1 + (1 + (11 \times ((1+1+1) \times (1+1+111)))) \\
&:= (22/2 + 2) \times (((22+2)^2) - 2)/2 \\
&:= 3 + (((33 \times (333+3)) - 3)/3 + 33) \\
&:= 4 + (((4+4)^4) - (4/4 + 4)^4) + 4^4 \\
&:= 5^5 + ((55 \times 55 + 5)/5) \\
&:= 66 + ((6 \times 6 \times (6 \times 6 + 66)) - (6/6 + 6)) \\
&:= 7 + 7 \times (7 \times 77 - 7) \\
&:= 8 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) + (88/8)) \\
&:= ((9/9+9 \times 9) + 9) \times ((9 \times 9 \times 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3732 &:= 11 + (((1+11^{1+1})/(1+1))^{1+1}) \\
&:= 2 \times ((2 \times (2 \times (2 \times 222 + 22))) + 2) \\
&:= 3 + (33 \times (((333 - 3)/3) + 3)) \\
&:= 4 + ((4+4) \times 444 + 4 \times 44) \\
&:= 5^5 + (((55 \times 55 + 5) + 5)/5) \\
&:= 66 + ((6 \times 6 \times (6 \times 6 + 66)) - 6) \\
&:= 7 + (7 \times (7 \times 77 - 7) + 7/7) \\
&:= (8888/((8+8)/8)) - (8 \times 88 + 8) \\
&:= 9 + (((9+9+9)/9) \times (((9+9)/9)^9) + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3733 &:= 1 + (11 + (((1+11^{1+1})/(1+1))^{1+1})) \\
&:= ((2^{2+2+2} - 2)^2) - 222/2 \\
&:= ((3/3+3)^{3+3}) - (33 \times 33/3) \\
&:= 4 + (((4+4)^4) - (444/4 + 4^4)) \\
&:= 5^5 + (((5^5 - (55+5))/5) - 5) \\
&:= 6 + (((66 - 6 + 6/6)^{(6+6)/6}) + 6) \\
&:= 7 + (7 \times (7 \times 77 - 7) + ((7+7)/7)) \\
&:= 8 + (((8 - 8/8) \times ((8 \times 8 \times 8 + 88/8) + 8)) + 8) \\
&:= 9 + ((99 - 9/9) \times ((99/9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3734 &:= 1 + (1 + (11 + (((1+11^{1+1})/(1+1))^{1+1}))) \\
&:= 2^{2+2} + (22 \times ((22/2 + 2)^2)) \\
&:= (3 \times (333 - 3)) + ((33/3 + 3)^3) \\
&:= (((4+4)/4 + 4) \times (4/4 + 4)^4) - 4 \times 4 \\
&:= 5^5 + (((5^5 - 55)/5) - 5) \\
&:= (6 - 66)/6 + (6 \times (666 - (6 \times 6 + 6))) \\
&:= ((77 - 7)/7) + 7 \times (7 \times 77 - 7) \\
&:= 88 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) - ((8+8)/8)) \\
&:= 9 + (((9+9) \times (99+99+9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3735 &:= (1+1+1) \times (1 + (1 + (11 \times (1+1+111)))) \\
&:= 2 + (((2^{2+2+2} - 2)^2) - 222/2) \\
&:= 3 \times ((3 \times (3 \times 3^3 + 333)) + 3) \\
&:= (44/4 + 4) \times ((4^4 - 44/4) + 4) \\
&:= 55 + (555 + 5^5) \\
&:= 6 + (6666 \times 6 / (6+6) + 6 \times 66) \\
&:= 77/7 + 7 \times (7 \times 77 - 7) \\
&:= 88 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) - 8/8) \\
&:= 9 + ((9+9) \times (99+99+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3736 &:= 1 + ((1+1+1) \times (1 + (1 + (11 \times (1+1+111)))))) \\
&:= 2 \times (2 \times ((2 \times (2 \times 222 + 22)) + 2)) \\
&:= ((3/3+3)^{3+3}) - (333 + 3^3) \\
&:= (44 \times ((4 - 4/4)^4 + 4)) - 4 \\
&:= 5 + (((55 \times 55 + 5)/5) + 5^5) \\
&:= (6 \times (6 - 66)) + (((6+6)/6)^{6+6}) \\
&:= (77 + 7)/7 + 7 \times (7 \times 77 - 7) \\
&:= 88 + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= 9 + (((9+9) \times (99+99+9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3737 &:= (111/(1+1+1)) \times (1 + (11 - 1)^{1+1}) \\
&:= 2^{2+2} + ((2^{2+2+2} - (2/2 + 2)^2) \\
&:= (33/3 \times (((3/3+3+3)^3) - 3)) - 3 \\
&:= 4 \times 4 + (((4^4 + 4)/4 - 4)^{(4+4)/4}) \\
&:= 5^5 + ((5^5 - (55+5+5))/5) \\
&:= 66 + ((6 \times 6 \times (6 \times 6 + 66)) - 6/6) \\
&:= 7 + ((7 \times (7 \times 77 - 7) - 7/7) + 7) \\
&:= 8/8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) + 88) \\
&:= 99/9 + ((9+9) \times (99+99+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3738 &:= (1+1) \times ((11 \times (1 + (1+1+11)^{1+1})) - 1) \\
&:= 2 \times (((((2 \times 22) - 2/2)^2) - 2) + 22) \\
&:= 3 + (3 \times (3 \times 333 + 3) + 3^{3+3}) \\
&:= ((44 - 4)/4 + 4) \times (44/4 + 4^4) \\
&:= 5^5 + (((5^5 - (55+5))/5) \\
&:= 66 + (6 \times 6 \times (6 \times 6 + 66)) \\
&:= 7 + (7 \times (7 \times 77 - 7) + 7) \\
&:= 88 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) + ((8+8)/8)) \\
&:= (99+9)/9 + ((9+9) \times (99+99+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3739 &:= ((111 - 1) \times (1 + 11 \times (1 + 1 + 1))) - 1 \\
&:= 22 + ((22 \times ((22/2 + 2)^2)) - 2/2) \\
&:= 3 + (((3/3+3)^{3+3}) - (333 + 3^3)) \\
&:= (44 \times ((4 - 4/4)^4 + 4)) - 4/4 \\
&:= 5^5 + ((5^5 - 55)/5) \\
&:= 66 + ((6 \times 6 \times (6 \times 6 + 66)) + 6/6) \\
&:= 7 + ((7 \times (7 \times 77 - 7) + 7/7) + 7) \\
&:= 8 + (((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) + (88/8)) + 8) \\
&:= 9 + (((9 \times 9 - (99/9+9))^{(9+9)/9}) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3740 &:= (111 - 1) \times (1 + 11 \times (1 + 1 + 1)) \\
&:= 22 + (22 \times ((22/2 + 2)^2)) \\
&:= 33/3 \times (((3/3+3+3)^3) - 3) \\
&:= 44 \times ((4 - 4/4)^4 + 4) \\
&:= 5^5 + (5^5/5 - (5+5)) \\
&:= (6 \times 6 - ((6+6)/6)) \times ((666 - 6)/6) \\
&:= 7 + ((7 \times (7 \times 77 - 7) + ((7+7)/7)) + 7) \\
&:= (8888/((8+8)/8)) - 8 \times 88 \\
&:= (9/9+9) \times (((9 \times 9 \times 9 \times 9)/9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3741 &:= 1 + ((111 - 1) \times (1 + 11 \times (1 + 1 + 1))) \\
&:= ((2^{2+2+2} + 2/2)^2) - 22^2 \\
&:= 3 \times (((33/3)^3 - (3 \times 3^3 + 3)) \\
&:= 4/4 + (44 \times ((4 - 4/4)^4 + 4)) \\
&:= 5^5 + ((5^5 + 5)/5 - (5+5)) \\
&:= 66 + ((6 - 6/6) \times (((6 \times 6 / (6+6))^6) + 6)) \\
&:= 7 + (7 \times (7 \times 77 - 7) + ((77 - 7)/7)) \\
&:= (8/8 - 88) \times (8/8 - (88/((8+8)/8))) \\
&:= (99/9+9+9) \times ((999/9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3742 &:= 1 + (1 + ((111 - 1) \times (1 + 11 \times (1 + 1 + 1)))) \\
&:= 2 \times (((2 \times 22) - 2/2)^2) + 22 \\
&:= 3/3 + (3 \times ((33/3)^3 - (3 \times 3^3 + 3))) \\
&:= (4+4)/4 + (44 \times ((4 - 4/4)^4 + 4)) \\
&:= 5^5 + ((5^5 + 5 + 5)/5 - (5+5)) \\
&:= 6 + (((6+6)/6)^{6+6}) + (6 \times (6 - 66)) \\
&:= 7 + (7 \times (7 \times 77 - 7) + (77/7)) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 - 8) + 8)) - ((8+8)/8)) + 88) \\
&:= 9 + (((99 - 9/9) \times ((99/9+9+9) + 9)) + 9)
\end{aligned}$$

- ▶ 3743 := $((1+1) \times ((1+1+11) \times (1+11)^{1+1})) - 1$
:= $22 + ((2^{2+2+2} - (2/2+2)^2)$
:= $3 \times 333 + ((33/3+3)^3)$
:= $((4+4)^4) - ((4+4) \times 44 + 4/4)$
:= $5^5 + ((5^5 - 5 - 5)/5 - 5)$
:= $(6 \times (666 - (6 \times 6 + 6))) - 6/6$
:= $7 + (7 \times (7 \times 77 - 7) + (77 + 7)/7)$
:= $8 + (((8 \times (8 \times (8 \times 8 - 8) + 8)) - 8/8) + 88)$
:= $(9/9 + 9 + 9) \times ((99 - 9/9) + 99)$
- ▶ 3744 := $(1+1) \times ((1+1+11) \times (1+11)^{1+1})$
:= $2 \times (2 \times (2 \times (22^2 - 2^{2+2})))$
:= $(33+3+3) \times (3 \times 33 - 3)$
:= $((4+4)^4) - (4+4) \times 44$
:= $5^5 + ((5^5 - 5)/5 - 5)$
:= $6 \times (666 - (6 \times 6 + 6))$
:= $(7 \times 7 - 7/7) \times (7/7 + 77)$
:= $8 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) + 88)$
:= $9 + (((9+9) \times (99 + 99 + 9)) + 9)$
- ▶ 3745 := $1 + ((1+1) \times ((1+1+11) \times (1+11)^{1+1}))$
:= $((22/2+2) \times ((22+2)^2) + 2)/2$
:= $3/3 + ((33+3+3) \times (3 \times 33 - 3))$
:= $4/4 + (((4+4)^4) - (4+4) \times 44)$
:= $5^5 + (5^5/5 - 5)$
:= $6/6 + (6 \times (666 - (6 \times 6 + 6)))$
:= $(7 \times (7 \times 77 + 7)) - 77$
:= $8 + (((8 \times (8 \times (8 \times 8 - 8) + 8)) + 88) + 8/8)$
:= $9 + (((9+9) \times (99 + 99 + 9)) + 9/9 + 9)$
- ▶ 3746 := $(1+1) \times (1 + ((1+1+11) \times (1+11)^{1+1}))$
:= $2 + (2 \times (2 \times (2 \times (22^2 - 2^{2+2}))))$
:= $3 + (((33/3+3)^3) + 3 \times 333)$
:= $((4+4)/4 + 4) \times (4/4 + 4)^4 - 4$
:= $5^5 + ((5^5 + 5)/5 - 5)$
:= $(6+6)/6 + (6 \times (666 - (6 \times 6 + 6)))$
:= $7/7 + ((7 \times (7 \times 77 + 7)) - 77)$
:= $8 + (((8 \times (8 \times (8 \times 8 - 8) + 8)) + ((8+8)/8)) + 88)$
:= $9 + (((9+9) \times (99 + 99 + 9)) + (99/9))$
- ▶ 3747 := $1 + ((1+1) \times (1 + ((1+1+11) \times (1+11)^{1+1})))$
:= $(2 \times ((2 \times 22)^2 - 2) - (22/2)^2)$
:= $3 + ((33+3+3) \times (3 \times 33 - 3))$
:= $4 + (((4+4)^4) - ((4+4) \times 44 + 4/4))$
:= $5^5 + ((5^5 + 5 + 5)/5 - 5)$
:= $666/6 + (6 \times ((666 - 66) + 6))$
:= $(7+7)/7 + ((7 \times (7 \times 77 + 7)) - 77)$
:= $88 + ((8 \times (8 \times (8 \times 8 - 8) + 8)) + (88/8))$
:= $9 + (((9+9) \times (99 + 99 + 9)) + (99 + 9)/9)$
- ▶ 3748 := $(1+1) \times ((1+1) \times ((1+1)^{11} - 1111))$
:= $(2 \times (2 \times 22 + 2)^2) - 22^2$
:= $3^3 + (((3/3+3)^3) - 3)^{3-3/3}$
:= $4 + (((4+4)^4) - (4+4) \times 44)$
:= $5^5 + (5^5 - 5 - 5)/5$
:= $6 + (((6+6)/6)^{6+6}) + (6 \times (6 - 66)) + 6$
:= $7 \times 7 \times 77 - (77/7 + 7 + 7)$
:= $8 + ((8888/(8+8)/8) - 8 \times 88)$
:= $9 + (((9 \times 9 - (99/9 + 9))^{(9+9)/9}) + 9) + 9$
- ▶ 3749 := $1 + ((1+1) \times ((1+1) \times ((1+1)^{11} - 1111)))$
:= $(2 \times (2 \times 22)^2) - ((22/2)^2 + 2)$
:= $(3 \times (33/3)^3) - ((3^{3+3} + 3)/3)$
:= $4 + (((4+4)^4) - (4+4) \times 44) + 4/4$
:= $5^5 + (5^5 - 5)/5$
:= $6 + ((6 \times (666 - (6 \times 6 + 6))) - 6/6)$
:= $7 + ((7 \times (7 \times 77 - 7) + (77/7)) + 7)$
:= $88 + ((8 - 8/8) \times (8 \times 8 \times 8 + 88/8))$
:= $(9 \times (9 + 9) + 9/9) \times (99 + 99 + 9)/9$
- ▶ 3750 := $(11 - 1) \times (1 + (11 \times (1 + 11 \times (1 + 1 + 1))))$
:= $222 + (2 \times (2 \times 22 - 2)^2)$
:= $3 \times ((33/3)^3 - 3 \times 3^3)$
:= $((4+4)/4 + 4) \times (4/4 + 4)^4$
:= $5^5 + 5^5/5$
:= $6 + (6 \times (666 - (6 \times 6 + 6)))$
:= $(7/7 + 7 \times 7) \times (77 - (7 + 7)/7)$
:= $(8 - (8 + 8)/8) \times ((88 \times (8 - 8/8) + 8/8) + 8)$
:= $9 + ((99/9 + 9 + 9) \times ((999/9 + 9) + 9))$
- ▶ 3751 := $11 \times (11 + ((1+1+1) \times (111 - 1)))$
:= $(2 \times (2 \times 22)^2) - (22/2)^2$
:= $3/3 + (3 \times ((33/3)^3 - 3 \times 3^3))$
:= $4/4 + (((4+4)/4 + 4) \times (4/4 + 4)^4)$
:= $5^5 + (5^5 + 5)/5$
:= $6 + ((6 \times (666 - (6 \times 6 + 6))) + 6/6)$
:= $7 + ((7 \times 7 - 7/7) \times (7/7 + 77))$
:= $888/8 + ((8 \times 8 - 8) \times (8/8 + 8 \times 8))$
:= $99/9 \times (((9+9) \times (9+9) - 9/9) + 9) + 9$
- ▶ 3752 := $1 + (11 \times (11 + ((1+1+1) \times (111 - 1))))$
:= $2 + ((2 \times (2 \times 22 - 2)^2) + 222)$
:= $(3 \times (333 + 3)) + ((33/3 + 3)^3)$
:= $4 + (((4+4)^4) - (4+4) \times 44) + 4$
:= $5^5 + (5^5 + 5 + 5)/5$
:= $(66 + 6/6) \times (((6 - 66)/6) + 66)$
:= $7 \times 7 \times 77 - (7 + 7 + 7)$
:= $(8 \times 8 - 8) \times ((88/8 - 8) + 8 \times 8)$
:= $((9 + 9)/9)^9 + ((9 + 9) \times (99 + 9 \times 9))$
- ▶ 3753 := $1 + (1 + (11 \times (11 + ((1+1+1) \times (111 - 1))))))$
:= $2 + ((2 \times (2 \times 22)^2) - (22/2)^2)$
:= $3 + (3 \times ((33/3)^3 - 3 \times 3^3))$
:= $((4+4)^4) - (((4 - 4/4) + 4)^{4-4/4})$
:= $5 + ((5^5 - 5 - 5)/5 + 5^5)$
:= $(6 \times 666) - ((6 \times 6/(6+6))^{6-6/6})$
:= $7/7 + (7 \times 7 \times 77 - (7 + 7 + 7))$
:= $8/8 + ((8 \times 8 - 8) \times ((88/8 - 8) + 8 \times 8))$
:= $999 + (9 + 9) \times (9 \times (9 + 9) - 9)$
- ▶ 3754 := $((11 \times (1+1)^{11-1}) - (1+1))/(1+1+1)$
:= $222 + (2 \times ((2 \times 22 - 2)^2 + 2))$
:= $33 + (((3/3+3)^3) - 3)^{3-3/3}$
:= $4 + (((4+4)/4 + 4) \times (4/4 + 4)^4)$
:= $5 + ((5^5 - 5)/5 + 5^5)$
:= $((6+6)/6)^6 + (66 \times 66 - 666)$
:= $7 \times 7 \times 77 - ((77 + 7)/7 + 7)$
:= $((8/8 - 8) + 8 \times 8) \times (((8+8)/8) + 8 \times 8) - 8$
:= $9/9 + ((9+9) \times (9 \times (9+9) - 9) + 999)$
- ▶ 3755 := $(1 + (11 \times (1+1)^{11-1}))/ (1+1+1)$
:= $(2 \times ((2 \times 22)^2 + 2) - (22/2)^2)$
:= $3 + (3 \times (333 + 3) + ((33/3 + 3)^3))$
:= $44/4 + (((4+4)^4) - (4+4) \times 44)$
:= $5 + (5^5/5 + 5^5)$
:= $66/6 + (6 \times (666 - (6 \times 6 + 6)))$
:= $7 \times 7 \times 77 - (77/7 + 7)$
:= $((8 \times 8 - 88/8) \times ((8 \times 8 - 8/8) + 8)) - 8$
:= $9 + (((9+9) \times (99 + 99 + 9)) + (99/9) + 9)$
- ▶ 3756 := $1 + ((1 + (11 \times (1+1)^{11-1}))/ (1+1+1))$
:= $((2^{2+2+2} - 2)^2) - 2 \times 2 \times 22$
:= $(33 \times (333/3 + 3)) - 3 - 3$
:= $4 \times (4 \times 4^4 - ((4 - 4/4)^4 + 4))$
:= $5 + ((5^5 + 5)/5 + 5^5)$
:= $6 + ((6 \times (666 - (6 \times 6 + 6))) + 6)$
:= $((7 - 77)/7) + (7 \times 7 \times 77 - 7)$
:= $((8 \times 8 - ((8+8)/8))^{(8+8)/8}) - 88$
:= $999/9 + (9 \times ((9+9) \times (9+9) + 9 \times 9))$
- ▶ 3757 := $(1+1+11) \times (1 + ((1+1) \times (1+11)^{1+1}))$
:= $(22/2 + 2) \times ((2^{2+2} + 2/2)^2)$
:= $((3/3 + 3)^{3+3}) - (333 + 3 + 3)$
:= $4 + (((4+4)^4) - (((4 - 4/4) + 4)^{4-4/4}))$
:= $5 + ((5^5 + 5 + 5)/5 + 5^5)$
:= $6 \times 6 + ((66 - 6 + 6/6)^{(6+6)/6})$
:= $7 \times 7 \times 77 - (((7+7)/7 + 7) + 7)$
:= $8 + (((8 - 8/8) \times (8 \times 8 \times 8 + 88/8)) + 88)$
:= $((9 - 9/9) + 9) \times ((999 + 99)/9 + 99)$

$$\begin{aligned}
\blacktriangleright 3758 &:= (1+1) \times ((1+1)^{11} - (1+1+11)^{1+1}) \\
&:= 2 \times (2^{22/2} - ((22/2+2)^2)) \\
&:= (33 \times (333/3+3)) - (3/3+3) \\
&:= 4 + (((4+4)/4+4) \times (4/4+4)^4) + 4 \\
&:= 5 + (((5^5-5-5)/5+5^5) + 5) \\
&:= 6 + ((66+6/6) \times ((6-66)/6) + 66) \\
&:= 7 \times 7 \times 77 - (7/7+7+7) \\
&:= (888-8)/8 + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= 9 + ((9 \times (9+9) + 9/9) \times (99+99+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3759 &:= (1+1+1) \times ((11 \times (1+1+1+111)) - 1) \\
&:= (2 \times (2 \times 22)^2) - (222/2+2) \\
&:= (33 \times (333/3+3)) - 3 \\
&:= ((4+4)^4) - ((4-4/4)^4 + 4^4) \\
&:= 5 + (((5^5-5)/5+5^5) + 5) \\
&:= ((6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)) - 6) / ((6+6)/6)) \\
&:= 7 \times 7 \times 77 - (7+7) \\
&:= 888/8 + (8 \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= ((99+9)/9+9) \times ((9 \times 9 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3760 &:= ((1+1)^{1+11}) - ((1+1+1) \times (1+111)) \\
&:= (22 \times (((22/2+2)^2) + 2)) - 2 \\
&:= ((3/3+3)^{3+3}) - (333+3) \\
&:= 4 \times ((4 \times (4^4 - (4 \times 4 + 4))) - 4) \\
&:= 5 + ((5^5/5+5^5) + 5) \\
&:= 66 + (((6+6)/6)^{6+6}) - (6 \times 66 + 6) \\
&:= 7/7 + (7 \times 7 \times 77 - (7+7)) \\
&:= 88 + (8 \times 8 \times (8 \times 8 - 8) + 88) \\
&:= ((9+9)/9) \times (((9+9) \times 99 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3761 &:= (11 \times ((1+1+1) \times (1+1+1+111))) - 1 \\
&:= (2 \times (2 \times 22)^2) - 222/2 \\
&:= (33 \times (333/3+3)) - 3/3 \\
&:= 4/4 + (4 \times ((4 \times (4^4 - (4 \times 4 + 4))) - 4)) \\
&:= 5^5 + ((55+5^5)/5) \\
&:= 6 + ((6 \times (666 - (6 \times 6 + 6))) + (66/6)) \\
&:= 7 \times 7 \times 77 - (77+7)/7 \\
&:= 8/8 + ((8 \times 8 \times (8 \times 8 - 8) + 88) + 88) \\
&:= (99 \times ((99/9+9+9) + 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3762 &:= 11 \times ((1+1+1) \times (1+1+1+111)) \\
&:= 22 \times (((22/2+2)^2) + 2) \\
&:= 33 \times (333/3+3) \\
&:= 4 + (((4+4)/4+4) \times (4/4+4)^4) + 4 + 4 \\
&:= 5^5 + ((55+5^5+5)/5) \\
&:= 66 \times (((6-66)+6)/6) + 66 \\
&:= 7 \times 7 \times 77 - 77/7 \\
&:= ((8/8-8) + 8 \times 8) \times (((8+8)/8) + 8 \times 8) \\
&:= 99 \times ((99/9+9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3763 &:= ((1+1)^{1+11}) - (1+1+1) \times 111 \\
&:= 2 + ((2 \times (2 \times 22)^2) - 222/2) \\
&:= ((3/3+3)^{3+3}) - 333 \\
&:= 4 + (((4+4)^4) - ((4-4/4)^4 + 4^4)) \\
&:= 5^5 + (((55+5^5+5) + 5)/5) \\
&:= (6 \times (666 - 6 \times 6)) - (66/6+6) \\
&:= ((7-77)/7) + 7 \times 7 \times 77 \\
&:= (8 \times 8 - 88/8) \times ((8 \times 8 - 8/8) + 8) \\
&:= 9/9 + (99 \times ((99/9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3764 &:= 1 + (((1+1)^{1+11}) - (1+1+1) \times 111) \\
&:= 2 + (22 \times (((22/2+2)^2) + 2)) \\
&:= 3 + ((33 \times (333/3+3)) - 3/3) \\
&:= 4 + (4 \times ((4 \times (4^4 - (4 \times 4 + 4))) - 4)) \\
&:= 5 + (((5^5-5)/5+5^5) + 5) + 5 \\
&:= ((6/6-66) \times (6 - ((6+6)/6)^6)) - 6 \\
&:= 7 \times 7 \times 77 - ((7+7)/7+7) \\
&:= 8 + (((8 \times 8 - ((8+8)/8))^{(8+8)/8}) - 88) \\
&:= (9+9)/9 + (99 \times ((99/9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3765 &:= (1+1+1) \times (1 + (11 \times (1+1+1+111))) \\
&:= (2 \times ((2 \times 22)^2 + 2)) - 222/2 \\
&:= 3 + (33 \times (333/3+3)) \\
&:= (44/4+4) \times (4^4 - 4/4 - 4) \\
&:= 5 + (((5^5/5+5^5) + 5) + 5) \\
&:= (6 \times (66+6)) + 6666 \times 6 / (6+6) \\
&:= 7 \times 7 \times 77 - (7/7+7) \\
&:= (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8) + 8) - 88/8 \\
&:= 9 + ((9 \times ((9+9) \times (9+9) + 9 \times 9)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3766 &:= ((1+1)^{1+11}) - ((1+1+1) \times (111-1)) \\
&:= 2 + ((22 \times (((22/2+2)^2) + 2)) + 2) \\
&:= 3 + (((3/3+3)^{3+3}) - 333) \\
&:= 4 \times 4 + (((4+4)/4+4) \times (4/4+4)^4) \\
&:= 5 + (((55+5^5)/5) + 5^5) \\
&:= 66 + (((6+6)/6)^{6+6}) - 6 \times 66 \\
&:= 7 \times 7 \times 77 - 7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) + 8) + 888 - 8) / 8) \\
&:= 9 \times 9 + ((99/9) \times ((9+9) \times (9+9) + (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3767 &:= 1 + (((1+1)^{1+11}) - ((1+1+1) \times (111-1))) \\
&:= 2 + ((2 \times ((2 \times 22)^2 + 2)) - 222/2) \\
&:= (33/3 \times ((3/3+3+3)^3)) - 3 - 3 \\
&:= 4 + (((4+4)^4) - ((4-4/4)^4 + 4^4)) + 4 \\
&:= 5 + (((55+5^5+5)/5) + 5^5) \\
&:= (6 \times (666 - 6 \times 6)) - (6/6+6+6) \\
&:= 7/7 + (7 \times 7 \times 77 - 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 - 8) + 8) + 888/8)) \\
&:= (9 \times (((9+9)/9)^9 - 9 \times 9)) - ((999+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3768 &:= (1+1) \times ((1+11) \times (1 + ((1+11) \times (1+1+11)))) \\
&:= 2 \times (2 \times ((2 \times (22^2 - 2)) - 22)) \\
&:= 3 + ((33 \times (333/3+3)) + 3) \\
&:= ((4+4)^4) - ((4 \times (4-4/4)^4) + 4) \\
&:= (5/5+5) \times ((5^5-5-5)/5+5) \\
&:= (6 \times (666 - 6 \times 6)) - 6 - 6 \\
&:= (7+7)/7 + (7 \times 7 \times 77 - 7) \\
&:= 8888 + (8 \times (8 \times (8 - 88))) \\
&:= (99+9)/9 \times ((9+9) \times (9+9) - (9/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3769 &:= 1111 + (1+1) \times (11^{1+1+1} - 1 - 1) \\
&:= 2/2 + (2 \times (2 \times ((2 \times (22^2 - 2)) - 22))) \\
&:= 3 + (((3/3+3)^{3+3}) - 333) + 3 \\
&:= 4 + ((44/4+4) \times (4^4 - 4/4 - 4)) \\
&:= 5 \times 5 + (((5^5-5)/5-5) + 5^5) \\
&:= (6 \times (666 - 6 \times 6)) - 66/6 \\
&:= 7 + (7 \times 7 \times 77 - (77/7)) \\
&:= 8/8 + ((8 \times (8 \times (8 - 88))) + 8888) \\
&:= ((9+9) \times (999/9+99)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3770 &:= (1+1) \times ((1+1+11) \times (1 + (1+11)^{1+1})) \\
&:= 2 + (2 \times (2 \times ((2 \times (22^2 - 2)) - 22))) \\
&:= (33/3 \times ((3/3+3+3)^3)) - 3 \\
&:= (4^4+4)/4 \times ((4^4 - 4 - 4)/4 - 4) \\
&:= 5 \times 5 + ((5^5/5-5) + 5^5) \\
&:= (6/6-66) \times (6 - ((6+6)/6)^6) \\
&:= 7 \times 7 \times 77 - (7+7+7)/7 \\
&:= (8/8+8 \times 8) \times (((8+8)/8) - 8) + 8 \times 8 \\
&:= 9 + ((99 \times ((99/9+9+9) + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3771 &:= 111 + ((1+1+1) \times (11 \times 111 - 1)) \\
&:= (2/2+2)^2 \times (((22-2/2)^2) - 22) \\
&:= 3 \times ((33 \times (33/3+3^3)) + 3) \\
&:= ((4+4)^4) - (((4^4+4)/4+4^4) + 4) \\
&:= 5 + (((55+5^5)/5) + 5^5) + 5 \\
&:= 6/6 + ((6/6-66) \times (6 - ((6+6)/6)^6)) \\
&:= 7 \times 7 \times 77 - (7+7)/7 \\
&:= 8 + ((8 \times 8 - 88/8) \times ((8 \times 8 - 8/8) + 8)) \\
&:= 9 + (99 \times ((99/9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3772 &:= (111 \times (1+11 \times (1+1+1))) - 1 - 1 \\
&:= (222 \times (2^{2+2} + 2/2)) - 2 \\
&:= 3 \times 3 + (((3/3+3)^{3+3}) - 333) \\
&:= 4 \times (4 \times 4^4 - (4-4/4)^4) \\
&:= 5^5 + (((55+55) + 5^5)/5) \\
&:= (6 \times ((6-66) + 6)) + (((6+6)/6)^{6+6}) \\
&:= 7 \times 7 \times 77 - 7/7 \\
&:= ((8 \times ((888-8) + 8 \times 8)) - 8) / ((8+8)/8) \\
&:= 9 + ((99 \times ((99/9+9+9) + 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3773 &:= (111 \times (1 + 11 \times (1 + 1 + 1))) - 1 \\
&:= 22/2 \times ((22/2)^2 + 222) \\
&:= 33/3 \times ((3/3 + 3 + 3)^3) \\
&:= 4/4 + (4 \times (4 \times 4^4 - (4 - 4/4)^4)) \\
&:= 5 \times 5 + ((5^5 - 5 - 5)/5 + 5^5) \\
&:= (6 \times (666 - 6 \times 6)) - 6/6 - 6 \\
&:= 7 \times 7 \times 77 \\
&:= 88/8 \times ((8 - 8/8)^{88/8 - 8}) \\
&:= 99/9 + (99 \times ((99/9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3774 &:= 111 \times (1 + 11 \times (1 + 1 + 1)) \\
&:= 222 \times (2^{2+2} + 2/2) \\
&:= (3/3 + 33) \times 333/3 \\
&:= ((4 + 4)/4 + 4) \times ((4/4 + 4)^4 + 4) \\
&:= 5 \times 5 + ((5^5 - 5)/5 + 5^5) \\
&:= (6 \times (666 - 6 \times 6)) - 6 \\
&:= 7/7 + 7 \times 7 \times 77 \\
&:= ((8 + 8)/8) \times ((8/8 + 8 + 8) \times 888/8) \\
&:= ((9 + 9)/9) \times (((9 - 9/9) + 9) \times 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3775 &:= 1 + (111 \times (1 + 11 \times (1 + 1 + 1))) \\
&:= 2/2 + (222 \times (2^{2+2} + 2/2)) \\
&:= 3/3 + ((3/3 + 33) \times 333/3) \\
&:= ((4 + 4)^4) - ((4^4 + 4)/4 + 4^4) \\
&:= 5 \times (5 \times 5 \times (5 \times 5 + 5) + 5) \\
&:= 6/6 + ((6 \times (666 - 6 \times 6)) - 6) \\
&:= (7 + 7)/7 + 7 \times 7 \times 77 \\
&:= (8 \times (((8 \times (8 \times 8 - 8) + 8) + 8) + 8)) - 8/8 \\
&:= 9999/9 + (99 \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3776 &:= (1 + 1)^{11} + ((1 + 11)^{1+1+1}) \\
&:= 2 + (222 \times (2^{2+2} + 2/2)) \\
&:= 3 + (33/3 \times ((3/3 + 3 + 3)^3)) \\
&:= 4 \times (4 \times (4^4 - (4 \times 4 + 4))) \\
&:= 5 \times 5 + ((5^5 + 5)/5 + 5^5) \\
&:= ((6 + 6)/6)^6 \times (66 - 6/6 - 6) \\
&:= 7 \times 7 \times 77 + (7 + 7 + 7)/7 \\
&:= 8 \times (((8 \times (8 \times 8 - 8) + 8) + 8) + 8) \\
&:= 9 \times 9 \times 9 + (((9 + 9)/9)^{99/9} + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3777 &:= 1 + ((1 + 1)^{11} + ((1 + 11)^{1+1+1})) \\
&:= 2 + ((222 \times (2^{2+2} + 2/2)) + 2/2) \\
&:= (3 \times (33/3)^3) - (3 + 3)^3 \\
&:= 4/4 + (4 \times (4 \times (4^4 - (4 \times 4 + 4)))) \\
&:= 5 \times 5 + ((5^5 + 5 + 5)/5 + 5^5) \\
&:= (6 \times (666 - 6 \times 6)) - 6 \times 6/(6 + 6) \\
&:= 77/7 + (7 \times 7 \times 77 - 7) \\
&:= 8/8 + (8 \times (((8 \times (8 \times 8 - 8) + 8) + 8) + 8)) \\
&:= ((99 + 9) \times ((9 + 9 + 9) + 9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3778 &:= 1 + (1 + ((1 + 1)^{11} + ((1 + 11)^{1+1+1}))) \\
&:= 2 + ((222 \times (2^{2+2} + 2/2)) + 2) \\
&:= 3/3 + ((3 \times (33/3)^3) - (3 + 3)^3) \\
&:= 4 + (((4 + 4)/4 + 4) \times ((4/4 + 4)^4 + 4)) \\
&:= 5 + (((5^5 - 5 - 5)/5 + 5^5) + 5 \times 5) \\
&:= (6 \times (666 - 6 \times 6)) - (6 + 6)/6 \\
&:= 7 + (7 \times 7 \times 77 - ((7 + 7)/7)) \\
&:= 8 + ((8/8 + 8 \times 8) \times (((8 + 8)/8) - 8) + 8 \times 8) \\
&:= ((9 + 9)/9) \times ((9 \times 99 - 9/9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3779 &:= 1 + (1 + (1 + ((1 + 1)^{11} + ((1 + 11)^{1+1+1})))) \\
&:= (((((22 - 2)^{2/2+2}) + 2)/2) - 222) \\
&:= 3 + ((33/3 \times ((3/3 + 3 + 3)^3) + 3) \\
&:= ((4^4 - 4) \times (44/4 + 4)) - 4/4 \\
&:= 5 + (((5^5 - 5)/5 + 5^5) + 5 \times 5) \\
&:= (6 \times (666 - 6 \times 6)) - 6/6 \\
&:= 7 + (7 \times 7 \times 77 - 7/7) \\
&:= 8 + (((8 \times 8 - 88/8) \times ((8 \times 8 - 8/8) + 8)) + 8) \\
&:= ((9 + 9) \times (999/9 + 99)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3780 &:= 111 + ((1 + 1 + 1) \times (1 + (1 + 11 \times 111))) \\
&:= 2 \times ((2 \times 22)^2 - ((2 \times 22) + 2)) \\
&:= 3 \times ((3 + 3) \times ((3 + 3)^3 - (3 + 3))) \\
&:= (4^4 - 4) \times (44/4 + 4) \\
&:= (5/5 + 5) \times (5^5/5 + 5) \\
&:= 6 \times (666 - 6 \times 6) \\
&:= 7 + 7 \times 7 \times 77 \\
&:= (8/8 - 8 \times 8) \times ((8/((8 + 8)/8)) - 8 \times 8) \\
&:= (9 + 9) \times (999/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3781 &:= 11^{1+1} + ((1 + 1 + 1) \times (11 \times 111 - 1)) \\
&:= 2/2 + (2 \times ((2 \times 22)^2 - ((2 \times 22) + 2))) \\
&:= 3/3 + (3 \times ((3 + 3) \times ((3 + 3)^3 - (3 + 3)))) \\
&:= 4/4 + ((4^4 - 4) \times (44/4 + 4)) \\
&:= 5 + (((5^5 + 5)/5 + 5^5) + 5 \times 5) \\
&:= 6/6 + (6 \times (666 - 6 \times 6)) \\
&:= 7 + (7 \times 7 \times 77 + 7/7) \\
&:= (88/8 + 8) \times (888/8 + 88) \\
&:= 9/9 + ((9 + 9) \times (999/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3782 &:= (1 + 11^{1+1}) \times (1 + ((11 - 1) \times (1 + 1 + 1))) \\
&:= (2 \times (2 \times (2 \times 22^2 - 22))) - 2 \\
&:= 3 \times 3 + (33/3 \times ((3/3 + 3 + 3)^3)) \\
&:= (4 + 4)/4 + ((4^4 - 4) \times (44/4 + 4)) \\
&:= 5^5 + (((5 + 5)/5)^5 + 5^5/5) \\
&:= (6 + 6)/6 + (6 \times (666 - 6 \times 6)) \\
&:= 7 + (7 \times 7 \times 77 + ((7 + 7)/7)) \\
&:= (8 \times 8 - ((8 + 8)/8)) \times ((8 \times 8 - 88/8) + 8) \\
&:= (9 + 9)/9 + ((9 + 9) \times (999/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3783 &:= (11 \times (11 + (1 + 1 + 1) \times 111)) - 1 \\
&:= (2 \times (2 \times (2 \times 22^2 - 22))) - 2/2 \\
&:= 3 + (3 \times ((3 + 3) \times ((3 + 3)^3 - (3 + 3)))) \\
&:= 4 + (((4^4 - 4) \times (44/4 + 4)) - 4/4) \\
&:= 5^5 + ((5^5 + 5)/5 + ((5 + 5)/5)^5) \\
&:= 666/6 + (6 \times 6 \times (6 \times 6 + 66)) \\
&:= 7 \times 7 \times 77 + (77 - 7)/7 \\
&:= 8 + ((8 \times (((8 \times (8 \times 8 - 8) + 8) + 8) + 8)) - 8/8) \\
&:= 99 \times (9 + 9 + 9) + ((9999 - 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3784 &:= 11 \times (11 + (1 + 1 + 1) \times 111) \\
&:= 2 \times (2 \times (2 \times 22^2 - 22)) \\
&:= 33/3 \times (333 + 33/3) \\
&:= 4 + ((4^4 - 4) \times (44/4 + 4)) \\
&:= 5^5 + ((55 \times (55 + 5) - 5)/5) \\
&:= 6 + ((6 \times (666 - 6 \times 6)) - ((6 + 6)/6)) \\
&:= 77/7 + 7 \times 7 \times 77 \\
&:= 8 + (8 \times (((8 \times (8 \times 8 - 8) + 8) + 8) + 8)) \\
&:= 9999/9 + 99 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3785 &:= 1 + (11 \times (11 + (1 + 1 + 1) \times 111)) \\
&:= 2/2 + (2 \times (2 \times (2 \times 22^2 - 22))) \\
&:= 3 + ((33/3 \times ((3/3 + 3 + 3)^3) + 3 \times 3) \\
&:= 4 + (((4^4 - 4) \times (44/4 + 4)) + 4/4) \\
&:= 5 + ((5/5 + 5) \times (5^5/5 + 5)) \\
&:= 6 + ((6 \times (666 - 6 \times 6)) - 6/6) \\
&:= 7 \times 7 \times 77 + (77 + 7)/7 \\
&:= 8 + ((8 \times (((8 \times (8 \times 8 - 8) + 8) + 8) + 8)) + 8/8) \\
&:= 99 \times (9 + 9 + 9) + (9999 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3786 &:= 1 + (1 + (11 \times (11 + (1 + 1 + 1) \times 111))) \\
&:= 2 + (2 \times (2 \times (2 \times 22^2 - 22))) \\
&:= (3 \times ((33/3)^3 + 3)) - (3 + 3)^3 \\
&:= ((44 \times (4 \times 44 - 4)) + 4)/(4 + 4)/4 \\
&:= (5/5 + 5) \times ((5^5 + 5)/5 + 5) \\
&:= 6 + (6 \times (666 - 6 \times 6)) \\
&:= 7 + ((7 \times 7 \times 77 - 7/7) + 7) \\
&:= (8 - (8 + 8)/8) \times (8 \times (88 - 8) - (8/8 + 8)) \\
&:= ((9 + 9)/9) \times ((9 + 9) \times 99 + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3787 &:= 11 + ((1 + 1)^{11} + ((1 + 11)^{1+1+1})) \\
&:= 2 + ((2 \times (2 \times (2 \times 22^2 - 22))) + 2/2) \\
&:= 3 + (33/3 \times (333 + 33/3)) \\
&:= 44/4 + (4 \times (4 \times (4^4 - (4 \times 4 + 4)))) \\
&:= 5 + (((5 + 5)/5)^5 + 5^5/5 + 5^5) \\
&:= 6 + ((6 \times (666 - 6 \times 6)) + 6/6) \\
&:= 7 + (7 \times 7 \times 77 + 7) \\
&:= 88/8 + (8 \times (((8 \times (8 \times 8 - 8) + 8) + 8) + 8)) \\
&:= (9 \times ((9 + 9) \times (9 + 9) + 99)) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3788 &:= 1 + (11 + ((1+1)^{11} + ((1+11)^{1+1+1}))) \\
&:= 2 \times ((2 \times (2 \times 22^2 - 22)) + 2) \\
&:= (3 \times (((3+3)^{3/3+3}) - 33)) - 3/3 \\
&:= 4 + (((4^4 - 4) \times (44/4 + 4)) + 4) \\
&:= 5 + (((5^5 + 5)/5 + ((5+5)/5)^5) + 5^5) \\
&:= 6 + ((6 \times (666 - 6 \times 6)) + ((6+6)/6)) \\
&:= 7 + ((7 \times 7 \times 77 + 7/7) + 7) \\
&:= ((88 \times 88 + 8)/(8+8)/8) - 88 \\
&:= 9 + (((9+9) \times (999/9 + 99)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3789 &:= 1 + (1 + (11 + ((1+1)^{11} + ((1+11)^{1+1+1})))) \\
&:= 2/2 + (2 \times ((2 \times (2 \times 22^2 - 22)) + 2)) \\
&:= 3 \times (((3+3)^{3/3+3}) - 33) \\
&:= 4 + (((4^4 - 4) \times (44/4 + 4)) + 4/4 + 4) \\
&:= 5 + (((55 \times (55 + 5) - 5)/5) + 5^5) \\
&:= 6 + ((6 \times (666 - 6 \times 6)) + (6 \times 6/(6+6))) \\
&:= 7 + ((7 \times 7 \times 77 + ((7+7)/7)) + 7) \\
&:= 8 + ((88/8 + 8) \times (888/8 + 88)) \\
&:= 9 + ((9+9) \times (999/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3790 &:= (((1+1) \times 111)^{1+1} - 1)/(1+1+11) - 1 \\
&:= 2 + (2 \times ((2 \times (2 \times 22^2 - 22)) + 2)) \\
&:= 3^3 + (((3/3 + 3)^{3+3}) - 333) \\
&:= 4 + (((44 \times (4 \times 44 - 4)) + 4)/(4+4)/4) \\
&:= 5 + (((5/5 + 5) \times (5^5/5 + 5)) + 5) \\
&:= ((66 - 6)/6) + (6 \times (666 - 6 \times 6)) \\
&:= 7 + (7 \times 7 \times 77 + ((77 - 7)/7)) \\
&:= 8 + ((8 \times 8 - ((8+8)/8)) \times ((8 \times 8 - 88/8) + 8)) \\
&:= (9/9 + 9) \times (9 \times 99 - ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3791 &:= (((1+1) \times 111)^{1+1} - 1)/(1+1+11) \\
&:= (2^{2+2} + 2/2) \times (222 + 2/2) \\
&:= 3 + ((3 \times (((3+3)^{3/3+3}) - 33)) - 3/3) \\
&:= 44/4 + ((4^4 - 4) \times (44/4 + 4)) \\
&:= 5 + ((5/5 + 5) \times ((5^5 + 5)/5 + 5)) \\
&:= 666 + ((6 - 6/6)^{6-6/6}) \\
&:= 7 + (7 \times 7 \times 77 + (77/7)) \\
&:= ((8 - (8+8)/8) \times (8 \times (88 - 8) - 8)) - 8/8 \\
&:= 99/9 + ((9+9) \times (999/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3792 &:= (((1+1) \times 111)^{1+1} - 1)/(1+1+11) + 1 \\
&:= 2 \times ((2 \times 22)^2 + (2 \times (2 - 22))) \\
&:= 3 + (3 \times (((3+3)^{3/3+3}) - 33)) \\
&:= 4 \times ((4 \times (4^4 - (4 \times 4 + 4))) + 4) \\
&:= (5/5 + 5) \times ((5^5 + 5 + 5)/5 + 5) \\
&:= 6 + ((6 \times (666 - 6 \times 6)) + 6) \\
&:= 7 + (7 \times 7 \times 77 + (77 + 7)/7) \\
&:= (8 - (8+8)/8) \times (8 \times (88 - 8) - 8) \\
&:= (99 + 9)/9 \times (((9+9) \times (9+9) - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3793 &:= (11 \times (1 + (11 + (1 + 1 + 1) \times 111))) - 1 - 1 \\
&:= 2 + ((2^{2+2} + 2/2) \times (222 + 2/2)) \\
&:= 3 + ((3 \times (((3+3)^{3/3+3}) - 33)) + 3/3) \\
&:= 4/4 + (4 \times ((4 \times (4^4 - (4 \times 4 + 4))) + 4)) \\
&:= 55 + (((5^5 - (55 + 5))/5) + 5^5) \\
&:= 6 + (((6 \times (666 - 6 \times 6)) + 6/6) + 6) \\
&:= 7 + (((7 \times 7 \times 77 - 7/7) + 7) + 7) \\
&:= 8/8 + ((8 - (8+8)/8) \times (8 \times (88 - 8) - 8)) \\
&:= 9 + (9999/9 + 99 \times (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3794 &:= (11 \times (1 + (11 + (1 + 1 + 1) \times 111))) - 1 \\
&:= 2 + (2 \times ((2 \times 22)^2 + (2 \times (2 - 22)))) \\
&:= (33 \times (((333 + 3)/3) + 3)) - 3/3 \\
&:= 44 + (((4+4)/4 + 4) \times (4/4 + 4)^4) \\
&:= 55 + (((5^5 - 55)/5) + 5^5) \\
&:= 6 + (((6 \times (666 - 6 \times 6)) + ((6+6)/6)) + 6) \\
&:= 7 + ((7 \times 7 \times 77 + 7) + 7) \\
&:= 8 + ((8 - (8+8)/8) \times (8 \times (88 - 8) - (8/8 + 8))) \\
&:= 9 + ((9999 + 9)/9 + 99 \times (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3795 &:= 11 \times (1 + (11 + (1 + 1 + 1) \times 111)) \\
&:= 22/2 + (2 \times (2 \times (2 \times 22^2 - 22))) \\
&:= 33 \times (((333 + 3)/3) + 3) \\
&:= ((4+4)^4) - ((44+4^4) + 4/4) \\
&:= 55 + ((5^5/5 - (5+5)) + 5^5) \\
&:= (6 - 6/6) \times (((6 \times 6/(6+6))^6) - 6) + 6 \times 6) \\
&:= 7 + (((7 \times 7 \times 77 + 7/7) + 7) + 7) \\
&:= 88/8 \times (((8+8) \times (8+8) + 8/8) + 88) \\
&:= (9 \times ((9+9) \times (9+9) + 99)) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3796 &:= 1 + (11 \times (1 + (11 + (1 + 1 + 1) \times 111))) \\
&:= 2 \times (((2 \times 22)^2 + (2 \times (2 - 22))) + 2) \\
&:= 3/3 + (33 \times (((333 + 3)/3) + 3)) \\
&:= ((4+4)^4) - (44 + 4^4) \\
&:= 5 + (((5/5 + 5) \times ((5^5 + 5)/5 + 5)) + 5) \\
&:= 6 + ((6 \times (666 - 6 \times 6)) + ((66 - 6)/6)) \\
&:= 7 + (((7 \times 7 \times 77 + ((7+7)/7)) + 7) + 7) \\
&:= 8 + (((88 \times 88 + 8)/(8+8)/8) - 88) \\
&:= (9 \times ((9+9) \times (9+9) + 99)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3797 &:= ((1+111) \times (1 + 11 \times (1 + 1 + 1))) - 11 \\
&:= 2 + ((2 \times (2 \times (2 \times 22^2 - 22))) + 22/2) \\
&:= 3 + ((33 \times (((333 + 3)/3) + 3)) - 3/3) \\
&:= 4/4 + (((4+4)^4) - (44 + 4^4)) \\
&:= 5 + ((5/5 + 5) \times ((5^5 + 5 + 5)/5 + 5)) \\
&:= 6 + ((6 \times (666 - 6 \times 6)) + (66/6)) \\
&:= 7 + ((7 \times 7 \times 77 + ((77 - 7)/7)) + 7) \\
&:= (8 \times (88 \times 88/(8+8) - 8)) - 88/8 \\
&:= (9 \times ((9+9) \times (9+9) + 99)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3798 &:= 1 + (((1+111) \times (1 + 11 \times (1 + 1 + 1))) - 11) \\
&:= (2/2 + 2)^2 \times ((22 - 2)^2 + 22) \\
&:= 3 + (33 \times (((333 + 3)/3) + 3)) \\
&:= ((4+4)^4) + ((4+4)/4 - (44 + 4^4)) \\
&:= 55 + (((5^5 - 5 - 5)/5 - 5) + 5^5) \\
&:= 6 + (((6 \times (666 - 6 \times 6)) + 6) + 6) \\
&:= 7 + ((7 \times 7 \times 77 + (77/7)) + 7) \\
&:= (8/8 + 8) \times (8 \times 8 \times 8 - ((8+8)/8 + 88)) \\
&:= 9 \times (((9+9)/9)^9) - 99 + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3799 &:= 1111 + ((1+1) \times ((1+11) \times (1+111))) \\
&:= ((2^{2+2+2} - 2)^2) - (2 \times 22 + 2/2) \\
&:= ((3/3 + 3)^{3+3}) - 3 \times 3 \times 33 \\
&:= 4 + (((4+4)^4) - ((44 + 4^4) + 4/4)) \\
&:= 5 \times 555 + (5 - 5/5)^5 \\
&:= 6 + (((6 \times (666 - 6 \times 6)) + 6/6) + 6) + 6) \\
&:= 7 + ((7 \times 7 \times 77 + (77 + 7)/7) + 7) \\
&:= 88 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) - 8/8) \\
&:= 9/9 + (9 \times (((9+9)/9)^9) - 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3800 &:= (11 - 1)^{1+1} \times (1 + (111/(1+1+1))) \\
&:= 2 \times (2 \times ((2 \times (22^2 + 2)) - 22)) \\
&:= 3^3 + (33/3 \times ((3/3 + 3 + 3)^3)) \\
&:= 4 + (((4+4)^4) - (44 + 4^4)) \\
&:= 5 \times ((5 \times 5 \times (5 \times 5 + 5) + 5) + 5) \\
&:= 66 \times 66 - (6666 + 6)/(6+6) \\
&:= (7/7 + 7 \times 7) \times (77 - 7/7) \\
&:= 88 + (8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) \\
&:= (9/9 + 99) \times ((99/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3801 &:= 1 + ((11 - 1)^{1+1} \times (1 + (111/(1+1+1)))) \\
&:= 2/2 + (2 \times (2 \times ((2 \times (22^2 + 2)) - 22))) \\
&:= 3 \times ((33/3)^3 - ((3/3 + 3)^3)) \\
&:= 4 + (((4+4)^4) - (44 + 4^4)) + 4/4 \\
&:= 55 + (((5^5 + 5)/5 - 5) + 5^5) \\
&:= (6/6 + 6) \times (666/6 + (6 \times (66 + 6))) \\
&:= 77 + 7 \times (7 \times 77 - 7) \\
&:= 8/8 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) + 88) \\
&:= ((99 + 9)/9 + 9) \times ((99/9 + 99) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3802 &:= 1 + (1 + ((11 - 1)^{1+1} \times (1 + (111/(1+1+1)))) \\
&:= 2 + (2 \times (2 \times ((2 \times (22^2 + 2)) - 22))) \\
&:= 3 + (((3/3 + 3)^{3+3}) - 3 \times 3 \times 33) \\
&:= 4 + (((4+4)/4 - (44 + 4^4)) + ((4+4)^4)) \\
&:= 55 + (((5^5 + 5 + 5)/5 - 5) + 5^5) \\
&:= 66 + (((6+6)/6)^{6+6}) + (6 \times (6 - 66)) \\
&:= 7/7 + (7 \times (7 \times 77 - 7) + 77) \\
&:= 88 + ((8 \times ((8 \times (8 \times 8 - 8) + 8) + 8)) + ((8+8)/8)) \\
&:= 9 \times 9 + ((9 \times 9 - (99/9 + 9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3803 &:= 111 + (((1+1+1) \times ((11 \times (1+111)) - 1)) - 1) \\
&:= 2 + ((2 \times (2 \times ((2 \times (22^2 + 2)) - 22))) + 2/2) \\
&:= (33/3 \times (((3/3 + 3 + 3)^3) + 3)) - 3 \\
&:= 4^4 + ((4+4) \times 444 - (4/4 + 4)) \\
&:= 55 + ((5^5 - 5 - 5)/5 + 5^5) \\
&:= 6 + (((6 \times (666 - 6 \times 6)) + (66/6)) + 6) \\
&:= 77 + (7 \times (7 \times 77 - 7) + ((7+7)/7)) \\
&:= 8 + (88/8 \times (((8+8) \times (8+8) + 8/8) + 88)) \\
&:= ((9 - 9 \times 9)/(9+9)) + (9 \times ((9+9) \times (9+9) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3804 &:= (1+1) \times ((1+1)^{11} - (1 + (1 + (1 + 11)^{1+1}))) \\
&:= 2 \times ((2 \times ((2 \times (22^2 + 2)) - 22)) + 2) \\
&:= (3 \times (((3+3)^{3/3+3}) - 3^3)) - 3 \\
&:= 4^4 + ((4+4) \times 444 - 4) \\
&:= 55 + ((5^5 - 5)/5 + 5^5) \\
&:= (6 \times ((666 - 6 \times 6) + 6)) - 6 - 6 \\
&:= (7 \times (7 \times 77 + 7)) - (77/7 + 7) \\
&:= ((8 \times (888 + 8 \times 8)) - 8)/(8+8)/8 \\
&:= (9 \times ((9+9) \times (9+9) + 99)) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3805 &:= ((1+111) \times (1+11 \times (1+1+1))) - 1 - 1 - 1 \\
&:= (2 \times ((2 \times 22)^2 - 22)) - (22 + 2/2) \\
&:= ((3/3 + 33) \times ((333 + 3)/3)) - 3 \\
&:= 4/4 + (((4+4) \times 444 - 4) + 4^4) \\
&:= 55 + (5^5/5 + 5^5) \\
&:= (6 \times ((666 - 6 \times 6) + 6)) - 66/6 \\
&:= 7 + (((7 \times 7 \times 77 + (77/7)) + 7) + 7) \\
&:= ((8/8 + 8) \times (8 \times 8 \times 8 - 88)) - 88/8 \\
&:= (9 \times ((9+9) \times (9+9) + 99)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3806 &:= (1+1) \times ((1+1)^{11} - (1 + (1 + 11)^{1+1})) \\
&:= 22 \times (((22/2 + 2)^2) + 2) + 2) \\
&:= 33/3 \times (((3/3 + 3 + 3)^3) + 3) \\
&:= 4^4 + ((4+4) \times 444 - (4+4)/4) \\
&:= 55 + ((5^5 + 5)/5 + 5^5) \\
&:= 6 \times 6 + ((6/6 - 66) \times (6 - ((6+6)/6)^6)) \\
&:= 77/7 \times (((7+7+7)/7) + 7 \times 7 \times 7) \\
&:= (8 \times (88 \times 88/(8+8) - 8)) - (8+8)/8 \\
&:= (9 \times ((9+9) \times (9+9) + 99)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3807 &:= ((1+111) \times (1+11 \times (1+1+1))) - 1 \\
&:= 2/2 + (22 \times (((22/2 + 2)^2) + 2) + 2) \\
&:= 3 \times (((3+3)^{3/3+3}) - 3^3) \\
&:= 4^4 + ((4+4) \times 444 - 4/4) \\
&:= 55 + ((5^5 + 5 + 5)/5 + 5^5) \\
&:= (6 \times (666 - (6+6))) - (666/6 + 6) \\
&:= 7 + ((7/7 + 7 \times 7) \times (77 - 7/7)) \\
&:= (8/8 + 8) \times (8 \times 8 \times 8 - (8/8 + 88)) \\
&:= 9 \times ((9+9) \times (9+9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3808 &:= (1+111) \times (1+11 \times (1+1+1)) \\
&:= 2 \times (2 \times (2 \times (22^2 - 2 \times (2+2)))) \\
&:= (3/3 + 33) \times ((333 + 3)/3) \\
&:= 4^4 + (4+4) \times 444 \\
&:= 5 + (((5^5 - 5 - 5)/5 + 5^5) + 55) \\
&:= (6 \times 6 - ((6+6)/6)) \times (666 + 6)/6 \\
&:= (7 \times (7 \times 77 + 7)) - (7+7) \\
&:= 8 \times (88 \times 88/(8+8) - 8) \\
&:= 9/9 + (9 \times ((9+9) \times (9+9) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3809 &:= 1 + ((1+111) \times (1+11 \times (1+1+1))) \\
&:= (((2 \times 2 \times 22 - 2)^2) + 222)/2 \\
&:= 3 + (33/3 \times (((3/3 + 3 + 3)^3) + 3)) \\
&:= 4/4 + ((4+4) \times 444 + 4^4) \\
&:= 5 + (((5^5 - 5)/5 + 5^5) + 55) \\
&:= (6 \times ((666 - 6 \times 6) + 6)) - 6/6 - 6 \\
&:= 7/7 + ((7 \times (7 \times 77 + 7)) - (7+7)) \\
&:= 8/8 + (8 \times (88 \times 88/(8+8) - 8)) \\
&:= (9+9)/9 + (9 \times ((9+9) \times (9+9) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3810 &:= 1 + (1 + ((1+111) \times (1+11 \times (1+1+1)))) \\
&:= 2 + (2 \times (2 \times (2 \times (22^2 - 2 \times (2+2)))) \\
&:= 3 + (3 \times (((3+3)^{3/3+3}) - 3^3)) \\
&:= (44/4 + 4) \times (4^4 - (4+4)/4) \\
&:= 5 + ((5^5/5 + 5^5) + 55) \\
&:= (6 \times ((666 - 6 \times 6) + 6)) - 6 \\
&:= (7 \times (7 \times 77 + 7)) - (77 + 7)/7 \\
&:= (8+8)/8 + (8 \times (88 \times 88/(8+8) - 8)) \\
&:= ((9+9+9)/9) + (9 \times ((9+9) \times (9+9) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3811 &:= 1 + (1 + (1 + ((1+111) \times (1+11 \times (1+1+1))))) \\
&:= 2 + (((2 \times 2 \times 22 - 2)^2) + 222)/2) \\
&:= 3 + ((3/3 + 33) \times ((333 + 3)/3)) \\
&:= 4 + (((4+4) \times 444 - 4/4) + 4^4) \\
&:= 5 + (((5^5 + 5)/5 + 5^5) + 55) \\
&:= 6/6 + ((6 \times ((666 - 6 \times 6) + 6)) - 6) \\
&:= (7 \times (7 \times 77 + 7)) - 77/7 \\
&:= (888/8 - 8) \times 888/(8+8+8) \\
&:= 9 + (((9 \times 9 - (99/9 + 9))^{(9+9)/9}) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3812 &:= (1+1) \times (1 + (1 + ((1+1)^{11} - (1+11)^{1+1}))) \\
&:= 2 \times ((2 \times (2 \times (22^2 - 2)) - 22) \\
&:= 3 + ((33/3 \times (((3/3 + 3 + 3)^3) + 3)) + 3) \\
&:= 4 + ((4+4) \times 444 + 4^4) \\
&:= 5 + (((5^5 + 5 + 5)/5 + 5^5) + 55) \\
&:= 6 \times 6 + (((6+6)/6)^6 \times (66 - 6/6 - 6)) \\
&:= ((7 - 77)/7) + (7 \times (7 \times 77 + 7)) \\
&:= ((8 \times (888 + 8 \times 8)) + 8)/(8+8)/8 \\
&:= (9+9) \times 99 + (((9+9)/9)^{99/9}) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3813 &:= (1 + (1 + 11^{1+1})) \times (1 + ((11 - 1) \times (1 + 1 + 1))) \\
&:= 2/2 + ((2 \times 22 - 2)^2 + 2^{22/2}) \\
&:= 3 \times ((33/3)^3 - (3^3 + 33)) \\
&:= 4 + (((4+4) \times 444 + 4^4) + 4/4) \\
&:= 5^5 + ((5 \times 5 \times 5 + 55 + 5)/(5+5)) \\
&:= (6 \times (666 - (6+6))) - 666/6 \\
&:= (7 \times (7 \times 77 + 7)) - ((7+7)/7 + 7) \\
&:= 8 + (((8/8 + 8) \times (8 \times 8 \times 8 - 88)) - (88/8)) \\
&:= 9 + ((9 \times ((9+9) \times (9+9) + 99)) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3814 &:= 111 + ((11111 - (1+1))/(1+1+1)) \\
&:= 2 + ((2 \times 22 - 2)^2 + 2^{22/2}) \\
&:= 3 + (((3/3 + 33) \times ((333 + 3)/3)) + 3) \\
&:= 4 + ((44/4 + 4) \times (4^4 - (4+4)/4)) \\
&:= 5 + (((5^5 - 5)/5 + 5^5) + 55) + 5) \\
&:= (((6+6)/6)^{6+6}) - (6 \times 6 \times 6 + 66) \\
&:= (7 \times (7 \times 77 + 7)) - (7/7 + 7) \\
&:= ((8/8 + 8) \times (8 \times 8 \times 8 - 88)) - (8+8)/8 \\
&:= 9 + ((9 \times ((9+9) \times (9+9) + 99)) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3815 &:= 111 + ((1 + 11111)/(1 + 1 + 1)) \\
&:= (2222/2) + (2 \times (22 + 2 + 2))^2 \\
&:= 3^{3+3} + (((3 \times (3+3)) + 3)^3) - 3/3) \\
&:= 4444 - ((4/4 + 4)^4 + 4) \\
&:= 5 + (((5^5/5 + 5^5) + 55) + 5) \\
&:= (6 \times ((666 - 6 \times 6) + 6)) - 6/6 \\
&:= (7 \times (7 \times 77 + 7)) - 7 \\
&:= ((8/8 + 8) \times (8 \times 8 \times 8 - 88)) - 8/8 \\
&:= 9 + ((9 \times ((9+9) \times (9+9) + 99)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3816 &:= (11 \times (11 + ((1+1+1) \times (1+111)))) - 1 \\
&:= 2 \times (((2 \times (2 \times (22^2 - 2))) - 22) + 2) \\
&:= (3+3) \times ((3 \times ((3+3)^3 - 3)) - 3) \\
&:= 4 + (((4+4) \times 444 + 4^4) + 4) \\
&:= (5/5 + 5) \times ((55 + 5^5)/5) \\
&:= 6 \times ((666 - 6 \times 6) + 6) \\
&:= 7/7 + ((7 \times (7 \times 77 + 7)) - 7) \\
&:= (8/8 + 8) \times (8 \times 8 \times 8 - 88) \\
&:= 9 + (9 \times ((9+9) \times (9+9) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3817 &:= 11 \times (11 + ((1+1+1) \times (1+111))) \\
&:= (2 \times ((2 \times 22)^2 - 22)) - 22/2 \\
&:= 3/3 + ((3+3) \times ((3 \times ((3+3)^3 - 3)) - 3)) \\
&:= 44/4 \times ((4+4) \times 44 - (4/4 + 4)) \\
&:= 55 + (((55 + 5^5 + 5)/5) + 5^5) \\
&:= 6/6 + (6 \times ((666 - 6 \times 6) + 6)) \\
&:= (7+7)/7 + ((7 \times (7 \times 77 + 7)) - 7) \\
&:= 8/8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 88)) \\
&:= 9 + ((9 \times ((9+9) \times (9+9) + 99)) + 9/9)
\end{aligned}$$

- **3818** := $1 + (11 \times (11 + ((1 + 1 + 1) \times (1 + 111))))$
:= $((2 \times 22) + 2) \times ((2/2 + 2)^{2+2} + 2)$
:= $3 + (((((3 \times (3 + 3)) + 3)^3) - 3)/3) + 3^{3+3}$
:= $((4 + 4^4) - ((44/(4 + 4)/4) + 4^4))$
:= $5 + (((5 \times 5 \times 5 \times 55 + 5)/(5 + 5)) + 5^5)$
:= $(6 + 6)/6 + (6 \times ((666 - 6 \times 6) + 6))$
:= $7 + ((7 \times (7 \times 77 + 7)) - (77/7))$
:= $(8 + 8)/8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 88))$
:= $99/9 + (9 \times ((9 + 9) \times (9 + 9) + 99))$
- **3819** := $11 + ((1 + 111) \times (1 + 11 \times (1 + 1 + 1)))$
:= $2 + ((2 \times ((2 \times 22)^2 - 22)) - 22/2)$
:= $3 + ((3 + 3) \times ((3 \times ((3 + 3)^3 - 3)) - 3))$
:= $4444 - (4/4 + 4^4)$
:= $(5 - 5/5)^5 + ((5 \times (555 + 5)) - 5)$
:= $(6 \times 666) - (666/6 + 66)$
:= $(7 \times (7 \times 77 + 7)) - (7 + 7 + 7)/7$
:= $88/8 + (8 \times (88 \times 88/(8 + 8) - 8))$
:= $(99 + 9)/9 + (9 \times ((9 + 9) \times (9 + 9) + 99))$
- **3820** := $1 + (11 + ((1 + 111) \times (1 + 11 \times (1 + 1 + 1))))$
:= $2 \times ((2 \times 22)^2 - (22 + 2 + 2))$
:= $3 + (((3 + 3) \times ((3 \times ((3 + 3)^3 - 3)) - 3)) + 3/3)$
:= $4^4 + (44 \times (4 - 4/4)^4)$
:= $5^5 + (5 \times 5 \times (5 \times 5 + 5) - 55)$
:= $6 + (((6 + 6)/6)^{6+6}) - (6 \times 6 \times 6 + 66)$
:= $(7 \times (7 \times 77 + 7)) - (7 + 7)/7$
:= $((88 - 8/8) \times (88/(8 + 8)/8)) - 8$
:= $99 + ((9 \times 9 - (99/9 + 9))^{(9+9)/9})$
- **3821** := $((1 + 1)^{1+11}) - (11 \times (1 + ((1 + 1) \times (1 + 11))))$
:= $((2^{2+2+2} - 2)^2) - (22 + 2/2)$
:= $((33/3 + 3) + 3)^3 - (33 \times 33 + 3)$
:= $((44/4 + 4) \times (4^4 - 4/4)) - 4$
:= $5 + ((5/5 + 5) \times ((55 + 5^5)/5))$
:= $6 + ((6 \times ((666 - 6 \times 6) + 6)) - 6/6)$
:= $(7 \times (7 \times 77 + 7)) - 7/7$
:= $(88 - 8) \times (8 \times 8 - 8 - 8) - (88/8 + 8)$
:= $(9 + 9) \times 99 + (((9 + 9)/9)^{99/9}) - 9$
- **3822** := $1 + (((1 + 1)^{1+11}) - (11 \times (1 + ((1 + 1) \times (1 + 11)))))$
:= $((2^{2+2+2} - 2)^2) - 22$
:= $(3 + 3) \times (3 \times (3 + 3)^3 - 33/3)$
:= $((4 + 4^4) - (((4 + 4)/4 + 4^4) + 4 \times 4))$
:= $(5/5 + 5) \times ((55 + 5^5 + 5)/5)$
:= $6 + (6 \times ((666 - 6 \times 6) + 6))$
:= $7 \times (7 \times 77 + 7)$
:= $8 + (((8/8 + 8) \times (8 \times 8 \times 8 - 88)) - ((8 + 8)/8))$
:= $(99 - 9/9) \times (((99 + 9)/9 + 9) + 9) + 9$
- **3823** := $1111 + ((1 + 1) \times ((1 + 11) \times (1 + 1 + 111)))$
:= $2/2 + (((2^{2+2+2} - 2)^2) - 22)$
:= $(3 \times ((3 + 3) \times ((3 + 3)^3 - 3))) - 33/3$
:= $4 + (4444 - (4/4 + 4^4))$
:= $55 + ((5/5 + 5) \times ((5^5 - 5 - 5)/5 + 5))$
:= $6 + ((6 \times ((666 - 6 \times 6) + 6)) + 6/6)$
:= $7/7 + (7 \times (7 \times 77 + 7))$
:= $8 + (((8/8 + 8) \times (8 \times 8 \times 8 - 88)) - 8/8)$
:= $9 + (((9 \times ((9 + 9) \times (9 + 9) + 99)) - ((9 + 9)/9)) + 9)$
- **3824** := $(1 + 1)^{11} + (111 \times (1 + 1)^{1+1+1+1})$
:= $2 \times ((2 \times 22)^2 - (22 + 2))$
:= $((33/3 + 3) + 3)^3 - 33 \times 33$
:= $4 \times ((4 \times (4^4 - 4 \times 4)) - 4)$
:= $(5 - 5/5)^5 + (5 \times (555 + 5))$
:= $(6 \times (6 \times 6 \times (6 + 6 + 6))) - ((6 + 6)/6)^6$
:= $(7 + 7)/7 + (7 \times (7 \times 77 + 7))$
:= $8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 88))$
:= $9 + (((9 \times ((9 + 9) \times (9 + 9) + 99)) - 9/9) + 9)$
- **3825** := $11^{1+1} + ((1 + 11111)/(1 + 1 + 1))$
:= $2/2 + (2 \times ((2 \times 22)^2 - (22 + 2)))$
:= $3 \times (((3 + 3) \times ((3 + 3)^3 - 3)) - 3)$
:= $(44/4 + 4) \times (4^4 - 4/4)$
:= $(5 + 5 + 5) \times (5 \times 5 \times (5 + 5) + 5)$
:= $(6 - 6/6) \times (((6 \times 6/(6 + 6))^6) + 6 \times 6)$
:= $(7 + 7 + 7)/7 + (7 \times (7 \times 77 + 7))$
:= $(8/8 + 8) \times ((8 \times 8 \times 8 - 88) + 8/8)$
:= $9 + ((9 \times ((9 + 9) \times (9 + 9) + 99)) + 9)$
- **3826** := $1 + (11^{1+1} + ((1 + 11111)/(1 + 1 + 1)))$
:= $(2 \times ((2 \times 22)^2 - 22)) - 2$
:= $3/3 + (3 \times (((3 + 3) \times ((3 + 3)^3 - 3)) - 3))$
:= $4/4 + ((44/4 + 4) \times (4^4 - 4/4))$
:= $5 + (((5/5 + 5) \times ((55 + 5^5)/5)) + 5)$
:= $(66 \times (((6 + 6)/6)^6 - 6)) - (6 + 6)/6$
:= $77/7 + ((7 \times (7 \times 77 + 7)) - 7)$
:= $((8 - (8 + 8)/8) \times (8 \times (88 - 8) - 8/8)) - 8$
:= $9 + (((9 \times ((9 + 9) \times (9 + 9) + 99)) + 9/9) + 9)$
- **3827** := $(11 \times (1 + (11 + ((1 + 1 + 1) \times (1 + 111)))) - 1$
:= $(2 \times ((2 \times 22)^2 - 22)) - 2/2$
:= $3 + (((33/3 + 3) + 3)^3) - 33 \times 33$
:= $4 + (4444 - (4/4 + 4^4) + 4)$
:= $5 + ((5/5 + 5) \times ((55 + 5^5 + 5)/5))$
:= $(66 \times (((6 + 6)/6)^6 - 6)) - 6/6$
:= $7 + ((7 \times (7 \times 77 + 7)) - ((7 + 7)/7))$
:= $88/8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 88))$
:= $9 + ((9 \times ((9 + 9) \times (9 + 9) + 99)) + (99/9))$
- **3828** := $11 \times (1 + (11 + ((1 + 1 + 1) \times (1 + 111))))$
:= $2 \times ((2 \times 22)^2 - 22)$
:= $3 + (3 \times (((3 + 3) \times ((3 + 3)^3 - 3)) - 3))$
:= $4 + (4 \times ((4 \times (4^4 - 4 \times 4)) - 4))$
:= $(5/5 + 5) \times (((55 + 5^5 + 5) + 5)/5)$
:= $66 \times (((6 + 6)/6)^6 - 6)$
:= $7 + ((7 \times (7 \times 77 + 7)) - 7/7)$
:= $(88 - 8/8) \times (88/((8 + 8)/8))$
:= $999/9 + (9 \times (((9 + 9)/9)^9) - 99)$
- **3829** := $1 + (11 \times (1 + (11 + ((1 + 1 + 1) \times (1 + 111))))$
:= $2/2 + (2 \times ((2 \times 22)^2 - 22))$
:= $3 + ((3 \times (((3 + 3) \times ((3 + 3)^3 - 3)) - 3)) + 3/3)$
:= $((4 + 4^4) - (44/4 + 4^4))$
:= $5 + ((5 \times (555 + 5)) + (5 - 5/5)^5)$
:= $6/6 + (66 \times (((6 + 6)/6)^6 - 6))$
:= $7 + (7 \times (7 \times 77 + 7))$
:= $(88 - 8) \times (8 \times 8 - 8 - 8) - 88/8$
:= $9 + ((9 \times 9 - (99/9 + 9))^{(9+9)/9}) + 99$
- **3830** := $(1 + 1) \times ((1 + 1)^{11} - (1 + (11 \times (1 + 11))))$
:= $2 + (2 \times ((2 \times 22)^2 - 22))$
:= $33 \times 33 + (((33/3 + 3)^3) - 3)$
:= $((4 + 4^4) + ((4 - 44)/4 - 4^4))$
:= $5 + ((5 + 5 + 5) \times (5 \times 5 \times (5 + 5) + 5))$
:= $(6 + 6)/6 + (66 \times (((6 + 6)/6)^6 - 6))$
:= $7 + ((7 \times (7 \times 77 + 7)) + 7/7)$
:= $(8 - 88)/8 + (88 - 8) \times (8 \times 8 - 8 - 8)$
:= $(9 + 9) \times 99 + (((9 + 9)/9)^{99/9})$
- **3831** := $((1 + 1) \times ((1 + 1)^{11} - (11 \times (1 + 11)))) - 1$
:= $2 + ((2 \times ((2 \times 22)^2 - 22)) + 2/2)$
:= $(3 \times ((3 + 3) \times ((3 + 3)^3 - 3))) - 3$
:= $((4 + 4^4) - (((4/4 + 4^4) + 4) + 4))$
:= $5 \times 5 + (((5^5 + 5)/5 + 5^5) + 55)$
:= $6 + ((6 - 6/6) \times (((6 \times 6/(6 + 6))^6) + 6 \times 6))$
:= $7 + ((7 \times (7 \times 77 + 7)) + ((7 + 7)/7))$
:= $(88 - 8) \times (8 \times 8 - 8 - 8) - (8/8 + 8)$
:= $((99/9 + 9) \times (999/9 + 9 \times 9)) - 9$
- **3832** := $(1 + 1) \times ((1 + 1)^{11} - (11 \times (1 + 11)))$
:= $2 \times (((2 \times 22)^2 - 22) + 2)$
:= $3/3 + ((3 \times ((3 + 3) \times ((3 + 3)^3 - 3))) - 3)$
:= $((4 + 4^4) - (4^4 + 4 + 4))$
:= $5 + (((5/5 + 5) \times ((55 + 5^5 + 5)/5)) + 5)$
:= $6 + ((66 \times (((6 + 6)/6)^6 - 6)) - ((6 + 6)/6))$
:= $((77 - 7)/7) + (7 \times (7 \times 77 + 7))$
:= $(88 - 8) \times (8 \times 8 - 8 - 8) - 8$
:= $999 + ((9 \times ((9 + 9) \times (9 + 9) - 9)) - ((9 + 9)/9))$

$$\begin{aligned}
\blacktriangleright 3833 &:= 1 + ((1+1) \times ((1+1)^{11} - (11 \times (1+1)))) \\
&:= ((2^{2+2+2} - 2)^2) - 22/2 \\
&:= 33 \times 33 + ((33/3 + 3)^3) \\
&:= 4 + (((4+4)^4) - (44/4 + 4^4)) \\
&:= ((5/5 + 5)^5 / ((5+5)/5)) - 55 \\
&:= 6 + ((66 \times ((6+6)/6)^6 - 6) - 6/6) \\
&:= 77/7 + (7 \times (7 \times 77 + 7)) \\
&:= 8/8 + ((88 - 8) \times (8 \times 8 - 8 - 8) - 8) \\
&:= 999 + ((9 \times (9+9) \times (9+9) - 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3834 &:= (1+1) \times (1 + ((1+1)^{11} - (11 \times (1+1)))) \\
&:= 2 + (2 \times (((2 \times 22)^2 - 22) + 2)) \\
&:= 3 \times ((3+3) \times ((3+3)^3 - 3)) \\
&:= ((4+4)^4) - (((4+4)/4 + 4^4) + 4) \\
&:= (5/5 + 5) \times (((5^5 - 5)/5 + 5) + 5) + 5 \\
&:= 6 + (66 \times (((6+6)/6)^6 - 6)) \\
&:= (77 + 7)/7 + (7 \times (7 \times 77 + 7)) \\
&:= (8 - (8+8)/8) \times (8 \times (88 - 8) - 8/8) \\
&:= 999 + (9 \times ((9+9) \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3835 &:= 1 + ((1+1) \times (1 + ((1+1)^{11} - (11 \times (1+1)))))) \\
&:= 2 + (((2^{2+2+2} - 2)^2) - 22/2) \\
&:= 3/3 + (3 \times ((3+3) \times ((3+3)^3 - 3))) \\
&:= ((4+4)^4) - ((4/4 + 4^4) + 4) \\
&:= 55 + ((5/5 + 5) \times (5^5/5 + 5)) \\
&:= (6/6 - 66) \times ((6/6 - 66) + 6) \\
&:= 7 + (((7 \times (7 \times 77 + 7)) - 7/7) + 7) \\
&:= (8/8 + 8 \times 8) \times ((88/8 - (8+8)) + 8 \times 8) \\
&:= ((9 \times 9 - (9/9 + 9 + 9))^{(9+9)/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3836 &:= (1+1) \times (1 + (1 + ((1+1)^{11} - (11 \times (1+1)))))) \\
&:= 2 \times (((2 \times 22)^2 - 22) + 2) + 2 \\
&:= 3 + (((33/3 + 3)^3) + 33 \times 33) \\
&:= ((4+4)^4) - (4^4 + 4) \\
&:= 5^5 + ((555 + 5^5)/5 - 5 \times 5) \\
&:= 6 + ((66 \times (((6+6)/6)^6 - 6)) + ((6+6)/6)) \\
&:= 7 + ((7 \times (7 \times 77 + 7)) + 7) \\
&:= ((8 \times 8 - ((8+8)/8))^{(8+8)/8}) - 8 \\
&:= 9 + (((9 \times (9+9) \times (9+9) + 99)) + (99/9)) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3837 &:= 1 + ((1+1) \times (1 + (1 + ((1+1)^{11} - (11 \times (1+1)))))) \\
&:= 2 + (((2^{2+2+2} - 2)^2) - 22/2) + 2 \\
&:= 3 + (3 \times ((3+3) \times ((3+3)^3 - 3))) \\
&:= 4/4 + (((4+4)^4) - (4^4 + 4)) \\
&:= 55 + (((5+5)/5)^5 + 5^5/5 + 5^5) \\
&:= (6 \times (666 - 6)) - ((666/6 + 6) + 6) \\
&:= 7 + (((7 \times (7 \times 77 + 7)) + 7/7) + 7) \\
&:= 8 + ((88 - 8) \times (8 \times 8 - 8 - 8) - (88/8)) \\
&:= 999/9 + ((9+9) \times (99 + 99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3838 &:= (1 + (11 - 1)^{1+1}) \times (1 + (111/(1+1+1))) \\
&:= ((2^{2+2+2} - 2)^2) - (2 + 2 + 2) \\
&:= 3 + ((3 \times ((3+3) \times ((3+3)^3 - 3))) + 3/3) \\
&:= ((4+4)^4) - ((4+4)/4 + 4^4) \\
&:= 5 + (((5/5 + 5)^5 / ((5+5)/5)) - 55) \\
&:= (((6+6)/6)^{6+6}) - (6 \times (6 \times 6 + 6) + 6) \\
&:= 7 + (((7 \times (7 \times 77 + 7)) + ((7+7)/7)) + 7) \\
&:= (88 - 8) \times (8 \times 8 - 8 - 8) - (8+8)/8 \\
&:= ((9+9)/9 + 99) \times ((99/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3839 &:= 11 \times (11 + ((1+1) \times (1 + 1 + 11)^{1+1})) \\
&:= 22/2 + (2 \times ((2 \times 22)^2 - 22)) \\
&:= 33/3 \times (((3/3 + 3 + 3)^3) + 3) + 3 \\
&:= ((4+4)^4) - (4/4 + 4^4) \\
&:= 5^5 + ((55 \times (55 + 5 + 5) - 5)/5) \\
&:= ((66 - 6) \times ((6+6)/6)^6) - 6/6 \\
&:= 77 + (7 \times 7 \times 77 - (77/7)) \\
&:= (88 - 8) \times (8 \times 8 - 8 - 8) - 8/8 \\
&:= 9 + (((9+9)/9)^{99/9}) + (9+9) \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3840 &:= (11^{1+1} - 1) \times ((11 \times (1+1+1)) - 1) \\
&:= 2 \times (2 \times (2 \times (22^2 - (2+2)))) \\
&:= (3^3 + 33) \times ((3/3 + 3)^3) \\
&:= ((4+4)^4) - 4^4 \\
&:= ((5+5)/5)^5 \times (5 \times 5 \times 5 - 5) \\
&:= (66 - 6) \times ((6+6)/6)^6 \\
&:= 7 + ((7 \times (7 \times 77 + 7)) + (77/7)) \\
&:= (88 - 8) \times (8 \times 8 - 8 - 8) \\
&:= (99/9 + 9) \times (999/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3841 &:= 1 + ((11^{1+1} - 1) \times ((11 \times (1+1+1)) - 1)) \\
&:= ((2^{2+2+2} - 2)^2) - 2/2 - 2 \\
&:= 3/3 + (((3^3 + 33) \times ((3/3 + 3)^3)) \\
&:= 4/4 + (((4+4)^4) - 4^4) \\
&:= 5 \times 5 + ((5/5 + 5) \times ((55 + 5^5)/5)) \\
&:= 6/6 + ((66 - 6) \times ((6+6)/6)^6) \\
&:= 7 + ((7 \times (7 \times 77 + 7)) + (77 + 7)/7) \\
&:= 8/8 + (88 - 8) \times (8 \times 8 - 8 - 8) \\
&:= ((99/9) \times (((9+9)/9)^9) - 9 \times (9+9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3842 &:= (1+1+111) \times (1+11 \times (1+1+1)) \\
&:= ((2^{2+2+2} - 2)^2) - 2 \\
&:= 3333 + (((3-3/3)^{3 \times 3}) - 3) \\
&:= ((4+4)^4) + ((4+4)/4 - 4^4) \\
&:= 5^5 + (((55 \times (55 + 5 + 5) + 5) + 5)/5) \\
&:= (6+6)/6 + ((66 - 6) \times ((6+6)/6)^6) \\
&:= 77 + (7 \times 7 \times 77 - (7/7 + 7)) \\
&:= (8+8)/8 + (88 - 8) \times (8 \times 8 - 8 - 8) \\
&:= 9 + (((9 \times (9+9) \times (9+9) - 9)) - 9/9) + 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3843 &:= ((1 + ((1 + 11^{1+1}) / (1 + 1)))^{1+1}) - 1 \\
&:= ((2^{2+2+2} - 2)^2) - 2/2 \\
&:= 3 \times (((3+3) \times ((3+3)^3 - 3)) + 3) \\
&:= 4 + (((4+4)^4) - (4/4 + 4^4)) \\
&:= ((5+5)/5 + 5) \times (555 - (5/5 + 5)) \\
&:= (6 \times (666 - 6)) - (666/6 + 6) \\
&:= 77 + (7 \times 7 \times 77 - 7) \\
&:= (8/8 - 8 \times 8) \times (88/8 - (8 \times 8 + 8)) \\
&:= 9 + ((9 \times (9+9) \times (9+9) - 9)) + 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3844 &:= (1 + ((1 + 11^{1+1}) / (1 + 1)))^{1+1} \\
&:= (2^{2+2+2} - 2)^2 \\
&:= 3/3 + (3 \times (((3+3) \times ((3+3)^3 - 3)) + 3)) \\
&:= 4 + (((4+4)^4) - 4^4) \\
&:= (((5+5)/5 + 55) + 5)^{(5+5)/5} \\
&:= (((6+6)/6)^{6+6}) - 6 \times (6 \times 6 + 6) \\
&:= 7/7 + ((7 \times 7 \times 77 - 7) + 77) \\
&:= (8 \times 8 - ((8+8)/8))^{(8+8)/8} \\
&:= (9 \times 9 - (9/9 + 9 + 9))^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3845 &:= 1 + ((1 + ((1 + 11^{1+1}) / (1 + 1)))^{1+1}) \\
&:= 2/2 + ((2^{2+2+2} - 2)^2) \\
&:= 3333 + ((3 - 3/3)^{3 \times 3}) \\
&:= 4 + (((4+4)^4) - 4^4) + 4/4 \\
&:= (55 \times ((55 + 5 + 5) + 5)) - 5 \\
&:= 6 + (((66 - 6) \times ((6+6)/6)^6) - 6/6) \\
&:= 77 + ((7 \times 7 \times 77 - 7) + ((7+7)/7)) \\
&:= 8/8 + ((8 \times 8 - ((8+8)/8))^{(8+8)/8}) \\
&:= 9/9 + ((9 \times 9 - (9/9 + 9 + 9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3846 &:= 1 + (1 + ((1 + ((1 + 11^{1+1}) / (1 + 1)))^{1+1})) \\
&:= 2 + ((2^{2+2+2} - 2)^2) \\
&:= 3 + (3 \times (((3+3) \times ((3+3)^3 - 3)) + 3)) \\
&:= 4 + (((4+4)^4) - 4^4) + (4+4)/4 \\
&:= (5/5 + 5) \times (((55 + 5^5)/5) + 5) \\
&:= 6 + ((66 - 6) \times ((6+6)/6)^6) \\
&:= 7 + ((7 \times 7 \times 77 - (77/7)) + 77) \\
&:= (8 - (8+8)/8) \times (8 \times (88 - 8) + 8/8) \\
&:= 9 + (((9+9) \times (99 + 99 + 9)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3847 &:= 1 + (1 + (1 + ((1 + ((1 + 11^{1+1}) / (1 + 1)))^{1+1}))) \\
&:= 2 + (((2^{2+2+2} - 2)^2) + 2/2) \\
&:= ((3/3 + 3)^{3+3}) - ((3+3)^3 + 33) \\
&:= 4 + (((4+4)^4) - (4/4 + 4^4)) + 4 \\
&:= 5 \times 5 + ((5/5 + 5) \times ((55 + 5^5 + 5)/5)) \\
&:= 6 + (((66 - 6) \times ((6+6)/6)^6) + 6/6) \\
&:= 7 + (((7 \times (7 \times 77 + 7)) + (77/7)) + 7) \\
&:= 8 + ((88 - 8) \times (8 \times 8 - 8 - 8) - 8/8) \\
&:= 9 + (((9+9)/9 + 99) \times ((99/9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3848 &:= (1+1) \times ((1+1)^{11} - (1+(1+(1+11^{1+1})))) \\
&:= 2 + (((2^{2+2+2} - 2)^2) + 2) \\
&:= 3 + (((3-3/3)^{3 \times 3}) + 3333) \\
&:= 4 + (((4+4)^4) - 4^4) + 4 \\
&:= (55 \times ((55+5+5) + 5)) - (5+5)/5 \\
&:= (6 \times 6 + 6/6) \times (((666-6)/6) - 6) \\
&:= 77 + (7 \times 7 \times 77 - ((7+7)/7)) \\
&:= 8 + (88-8) \times (8 \times 8 - 8-8) \\
&:= 9 + (((9+9)/9)^{99/9}) + (9+9) \times 99 + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3849 &:= ((111-1) \times (1+(1+11 \times (1+1+1)))) - 1 \\
&:= (2 \times (2 \times 22)^2) - (22+2/2) \\
&:= (3 \times ((33 \times (33+3+3)) - 3)) - 3 \\
&:= 4 + (((4+4)^4) - 4^4) + 4/4 + 4 \\
&:= (55 \times ((55+5+5) + 5)) - 5/5 \\
&:= (6 \times (666-6)) - 666/6 \\
&:= 77 + (7 \times 7 \times 77 - 7/7) \\
&:= 8 + ((88-8) \times (8 \times 8 - 8-8) + 8/8) \\
&:= 9 + ((99/9+9) \times (999/9+9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3850 &:= (111-1) \times (1+(1+11 \times (1+1+1))) \\
&:= (2 \times (2 \times 22)^2) - 22 \\
&:= ((33-3/3)+3) \times ((333-3)/3) \\
&:= ((4+4)^4) + ((44-4)/4 - 4^4) \\
&:= 55 \times ((55+5+5) + 5) \\
&:= (6 \times 6 - 6/6) \times ((666-6)/6) \\
&:= 77 + 7 \times 7 \times 77 \\
&:= 8 + ((88-8) \times (8 \times 8 - 8-8) + ((8+8)/8)) \\
&:= 99/9 \times (((9+9)/9)^9) - 9 \times (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3851 &:= 1 + ((111-1) \times (1+(1+11 \times (1+1+1)))) \\
&:= 2/2 + ((2 \times (2 \times 22)^2) - 22) \\
&:= (3 \times ((33 \times (33+3+3)) - 3)) - 3/3 \\
&:= 44/4 + (((4+4)^4) - 4^4) \\
&:= 5/5 + (55 \times ((55+5+5) + 5)) \\
&:= (6 \times ((6 \times 6 \times (6+6+6)) - 6)) - 6/6 \\
&:= 7/7 + (7 \times 7 \times 77 + 77) \\
&:= 88/8 + (88-8) \times (8 \times 8 - 8-8) \\
&:= (((9+9+9)+9) \times ((99-9/9)+9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3852 &:= (1+1) \times ((1+1)^{11} - (1+11^{1+1})) \\
&:= 2 + ((2 \times (2 \times 22)^2) - 22) \\
&:= 3 \times ((33 \times (33+3+3)) - 3) \\
&:= 4 + (((4+4)^4) - 4^4) + 4 + 4 \\
&:= (5+5)/5 + (55 \times ((55+5+5) + 5)) \\
&:= 6 \times ((6 \times 6 \times (6+6+6)) - 6) \\
&:= 77 + (7 \times 7 \times 77 + ((7+7)/7)) \\
&:= 8 + ((8 \times 8 - ((8+8)/8))^{(8+8)/8}) \\
&:= ((9+9+9)+9) \times ((99-9/9)+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3853 &:= ((1+1) \times ((1+1)^{11} - 11^{1+1})) - 1 \\
&:= 2 + (((2 \times (2 \times 22)^2) - 22) + 2/2) \\
&:= (3 \times (3 \times 3 + 3)^3) - (33/3)^3 \\
&:= ((4+4)^4) - ((4-4/4)^{4+4/4}) \\
&:= 5 + ((55 \times ((55+5+5) + 5)) - ((5+5)/5)) \\
&:= 6/6 + (6 \times ((6 \times 6 \times (6+6+6)) - 6)) \\
&:= 77 + (7 \times 7 \times 77 + ((7+7+7)/7)) \\
&:= 8 + (((8 \times 8 - ((8+8)/8))^{(8+8)/8}) + 8/8) \\
&:= 9 + ((9 \times 9 - (9/9+9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3854 &:= (1+1) \times ((1+1)^{11} - 11^{1+1}) \\
&:= (2 \times ((2 \times 22)^2 + 2)) - 22 \\
&:= ((3-3^{3+3})/3) + ((3/3+3)^{3+3}) \\
&:= ((4+4)^4) - 44 \times 44/(4+4) \\
&:= 5^5 + ((5 - (5+5)/5)^{5/5+5}) \\
&:= (6+6)/6 + (6 \times ((6 \times 6 \times (6+6+6)) - 6)) \\
&:= 77 + ((7 \times 7 \times 77 - 7) + (77/7)) \\
&:= 8 + ((8 - (8+8)/8) \times (8 \times (88-8) + 8/8)) \\
&:= (9/9+9 \times 9) \times (((99/9+9+9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3855 &:= 1 + ((1+1) \times ((1+1)^{11} - 11^{1+1})) \\
&:= 22/2 + ((2^{2+2+2} - 2)^2) \\
&:= (3 \times ((3+3)^{3/3+3})) - 33 \\
&:= (44/4+4) \times (4/4+4^4) \\
&:= 5 + (55 \times ((55+5+5) + 5)) \\
&:= ((6^{6-6/6}) - 66)/((6+6)/6) \\
&:= 7 + ((7 \times 7 \times 77 - ((7+7)/7)) + 77) \\
&:= (8-8/8+8) \times ((8+8) \times (8+8) + 8/8) \\
&:= 99/9 + ((9 \times 9 - (9/9+9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3856 &:= (1+1) \times (1 + ((1+1)^{11} - 11^{1+1})) \\
&:= 2 \times (2 \times (2 \times (22^2 - 2))) \\
&:= 3 + ((3 \times (3 \times 3 + 3)^3) - (33/3)^3) \\
&:= 4 \times ((4 \times (4^4 - 4 \times 4)) + 4) \\
&:= 5^5 + ((555+5^5)/5 - 5) \\
&:= 6 + ((6 \times 6 - 6/6) \times ((666-6)/6)) \\
&:= 7 + ((7 \times 7 \times 77 - 7/7) + 77) \\
&:= 8 + ((88-8) \times (8 \times 8 - 8-8) + 8) \\
&:= (9-9/9) \times (((9 \times (9 \times (99+9) - 9)) + 9) / (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3857 &:= 1 + ((1+1) \times (1 + ((1+1)^{11} - 11^{1+1}))) \\
&:= 2/2 + (2 \times (2 \times (2 \times (22^2 - 2)))) \\
&:= (3 \times (33 \times (33+3+3))) - (3/3+3) \\
&:= 4 \times 4 + (((4+4)^4) - 4^4) + 4/4 \\
&:= 5^5 + (((555+5^5) + 5)/5) - 5 \\
&:= 6 + ((6 \times ((6 \times 6 \times (6+6+6)) - 6)) - 6/6) \\
&:= 7 + (7 \times 7 \times 77 + 77) \\
&:= (8 \times (8 \times 8 \times 8 - 8-8)) - 888/8 \\
&:= (9 - (9+9)/9) \times ((9999 - 9 \times 9) / (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3858 &:= (1+1) \times (1 + (1 + ((1+1)^{11} - 11^{1+1}))) \\
&:= 2 + (2 \times (2 \times (2 \times (22^2 - 2)))) \\
&:= (3 \times (33 \times (33+3+3))) - 3 \\
&:= 4 + (((4+4)^4) - 44 \times 44/(4+4)) \\
&:= ((5/5+5)^5 / ((5+5)/5)) - (5 \times 5 + 5) \\
&:= 6 + (6 \times ((6 \times 6 \times (6+6+6)) - 6)) \\
&:= 7 + ((7 \times 7 \times 77 + 77) + 7/7) \\
&:= ((8-888)/8) + (8 \times (8 \times 8 \times 8 - 8-8)) \\
&:= ((9 \times 9 - (9+9))^{(9+9)/9}) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3859 &:= 1 + ((1+1) \times (1 + (1 + ((1+1)^{11} - 11^{1+1})))) \\
&:= (2 \times (2 \times 22)^2) - (22/2 + 2) \\
&:= 3/3 + ((3 \times (33 \times (33+3+3))) - 3) \\
&:= 4 + ((44/4+4) \times (4/4+4^4)) \\
&:= 5 + (((5 - (5+5)/5)^{5/5+5}) + 5^5) \\
&:= 6 + ((6 \times ((6 \times 6 \times (6+6+6)) - 6)) + 6/6) \\
&:= 7 + ((7 \times 7 \times 77 + ((7+7)/7)) + 77) \\
&:= 8 + ((88-8) \times (8 \times 8 - 8-8) + (88/8)) \\
&:= 9 + ((99/9) \times (((9+9)/9)^9) - 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3860 &:= (11 \times ((11 \times ((11 \times (1+1+1)) - 1)) - 1)) - 1 \\
&:= 2 \times ((2 \times (2 \times (22^2 - 2))) + 2) \\
&:= (3 \times (33 \times (33+3+3))) - 3/3 \\
&:= 4 + (((4+4)^4) - 4^4) + 4 \times 4 \\
&:= 5 + ((55 \times ((55+5+5) + 5)) + 5) \\
&:= (6 \times (666 - (6+6))) - ((6+6)/6)^6 \\
&:= (7 \times ((7 \times 77 + 7) + 7)) - 77/7 \\
&:= ((88 \times 88 - 8) / ((8+8)/8)) - 8 \\
&:= (99/9+9) \times (((999+9)/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3861 &:= 11 \times ((11 \times ((11 \times (1+1+1)) - 1)) - 1) \\
&:= (2 \times (2 \times 22)^2) - 22/2 \\
&:= 3 \times (33 \times (33+3+3)) \\
&:= 44/4 \times ((4+4) \times 44 - 4/4) \\
&:= 5^5 + (555+5^5)/5 \\
&:= 6 + (((6^{6-6/6}) - 66)/((6+6)/6)) \\
&:= 77 + (7 \times 7 \times 77 + (77/7)) \\
&:= (8 \times 88 \times 88 / (8+8)) - 88/8 \\
&:= 99 \times (((99+9)/9+9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3862 &:= 1 + (11 \times ((11 \times ((11 \times (1+1+1)) - 1)) - 1)) \\
&:= (2 \times (2 \times (2 \times 22^2 - 2))) - 2 \\
&:= 3/3 + (3 \times (33 \times (33+3+3))) \\
&:= ((4+4)^4) + ((44/((4+4)/4)) - 4^4) \\
&:= 5^5 + (((555+5^5) + 5)/5) \\
&:= 6 + (((6 \times 6 - 6/6) \times ((666-6)/6)) + 6) \\
&:= 77 + (7 \times 7 \times 77 + (77+7)/7) \\
&:= (8-88)/8 + (8 \times 88 \times 88 / (8+8)) \\
&:= 9 \times (9+9) \times (9+9+9) - ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3863 &:= ((1+1) \times ((1+1)^{11} - 111)) - 11 \\
&:= 2 + ((2 \times (2 \times 22)^2) - 22/2) \\
&:= 3 + ((3 \times (33 \times (33 + 3 + 3))) - 3/3) \\
&:= 4 + (((44/4 + 4) \times (4/4 + 4^4)) + 4) \\
&:= ((5/5 + 5)^5 / ((5 + 5)/5)) - 5 \times 5 \\
&:= 66/6 + (6 \times ((6 \times 6 \times (6 + 6 + 6)) - 6)) \\
&:= (7 \times ((7 \times 77 + 7) + 7)) - (7/7 + 7) \\
&:= (8 \times 88 \times 88 / (8 + 8)) - (8/8 + 8) \\
&:= 9 + ((9/9 + 9 \times 9) \times (((99/9 + 9 + 9) + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3864 &:= (1 + 11) \times ((1 + 1 + 1) \times 111 - 11) \\
&:= 2 \times (2 \times (2 \times 22^2 - 2)) \\
&:= 3 + (3 \times (33 \times (33 + 3 + 3))) \\
&:= (4 + 4) \times ((44 \times 44 - 4) / 4) \\
&:= 5^5 + (((5^5 - 55) / 5) + 5 \times 5 \times 5) \\
&:= (6 \times 666) - (66 + 66) \\
&:= (7 \times ((7 \times 77 + 7) + 7)) - 7 \\
&:= (8 \times 88 \times 88 / (8 + 8)) - 8 \\
&:= (99 + 9) / 9 \times ((9 + 9) \times (9 + 9) - ((9 + 9) / 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3865 &:= 1 + ((1 + 11) \times ((1 + 1 + 1) \times 111 - 11)) \\
&:= 2/2 + (2 \times (2 \times (2 \times 22^2 - 2))) \\
&:= 3 + ((3 \times (33 \times (33 + 3 + 3))) + 3/3) \\
&:= 4 + (44/4 \times ((4 + 4) \times 44 - 4/4)) \\
&:= 5^5 + (5 \times 5 \times (5 \times 5 + 5) - (5 + 5)) \\
&:= 6/6 + ((6 \times 666) - (66 + 66)) \\
&:= 7/7 + ((7 \times ((7 \times 77 + 7) + 7)) - 7) \\
&:= 8/8 + ((8 \times 88 \times 88 / (8 + 8)) - 8) \\
&:= 9999/9 + (9 + 9) \times (9 \times (9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3866 &:= 1 + (1 + ((1 + 11) \times ((1 + 1 + 1) \times 111 - 11))) \\
&:= (2 \times ((2 \times 22)^2 - 2)) - 2 \\
&:= (3 - 3/3) \times (((3 \times (3 + 3))^3 - 33) / 3) \\
&:= (4 + 4) / 4 \times ((44 \times 44 - 4) + 4/4) \\
&:= 5 + ((555 + 5^5) / 5 + 5^5) \\
&:= (6 \times 666) - (((6 + 6) / 6)^6 + 66) \\
&:= (7 + 7) / 7 + ((7 \times ((7 \times 77 + 7) + 7)) - 7) \\
&:= (8 + 8) / 8 + ((8 \times 88 \times 88 / (8 + 8)) - 8) \\
&:= ((9 + 9) / 9) \times ((9 + 9) \times (99 + 9) - (99 / 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3867 &:= 11 + ((1 + 1) \times (1 + ((1 + 1)^{11} - 11^{1+1}))) \\
&:= (2 \times ((2 \times 22)^2 - 2)) - 2/2 \\
&:= ((3 + 3) \times (3 \times (3 + 3)^3 - 3)) - 3 \\
&:= (44 \times (44 + 44)) - (4/4 + 4) \\
&:= 5 + (((555 + 5^5) + 5) / 5) + 5^5 \\
&:= ((6^6 - 6/6) - (6 \times 6 + 6)) / ((6 + 6) / 6) \\
&:= 7 + ((7 \times ((7 \times 77 + 7) + 7)) - (77 / 7)) \\
&:= ((88 \times 88 - 8) / ((8 + 8) / 8)) - 8/8 \\
&:= (9 \times (((9 + 9) / 9)^9 - 9 \times 9)) - (99 + 9) / 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3868 &:= (1 + 1) \times ((1 + 1)^{11} - (1 + 1 + 1 + 111)) \\
&:= 2 \times ((2 \times 22)^2 - 2) \\
&:= 3/3 + (((3 + 3) \times (3 \times (3 + 3)^3 - 3)) - 3) \\
&:= (44 \times (44 + 44)) - 4 \\
&:= 5 + (((5/5 + 5)^5 / ((5 + 5) / 5)) - 5 \times 5) \\
&:= (6 \times 666) - (((6 + 6) / 6)^{6+6}) \\
&:= 7 + ((7 \times 7 \times 77 + (77 / 7)) + 77) \\
&:= (88 \times 88 - 8) / ((8 + 8) / 8) \\
&:= (9 \times (((9 + 9) / 9)^9 - 9 \times 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3869 &:= ((1 + 1) \times ((1 + 1)^{11} - (1 + 1 + 111))) - 1 \\
&:= 2/2 + (2 \times ((2 \times 22)^2 - 2)) \\
&:= ((3 + 3) \times (3 \times (3 + 3)^3 - 3)) - 3/3 \\
&:= 4/4 + ((44 \times (44 + 44)) - 4) \\
&:= 5^5 + (((5^5 - 5) / 5 - 5) + 5 \times 5 \times 5) \\
&:= ((6 + 6 + 6) \times (6 \times 6 \times 6 - 6/6)) - 6/6 \\
&:= (7 \times ((7 \times 77 + 7) + 7)) - (7 + 7) / 7 \\
&:= 8/8 + ((88 \times 88 - 8) / ((8 + 8) / 8)) \\
&:= (9 \times (((9 + 9) / 9)^9 - 9 \times 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3870 &:= (1 + 1) \times ((1 + 1)^{11} - (1 + 1 + 111)) \\
&:= (2 \times (2 \times 22)^2) - 2 \\
&:= (3 + 3) \times (3 \times (3 + 3)^3 - 3) \\
&:= (4 + 4) / 4 \times (44 \times 44 - 4/4) \\
&:= 5^5 + (5 \times 5 \times (5 \times 5 + 5) - 5) \\
&:= (6 + 6 + 6) \times (6 \times 6 \times 6 - 6/6) \\
&:= (7 \times ((7 \times 77 + 7) + 7)) - 7/7 \\
&:= (8 \times 88 \times 88 / (8 + 8)) - (8 + 8) / 8 \\
&:= (9 \times (((9 + 9) / 9)^9 - 9 \times 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3871 &:= ((1 + 1) \times ((1 + 1)^{11} - (1 + 111))) - 1 \\
&:= (2 \times (2 \times 22)^2) - 2/2 \\
&:= 3/3 + ((3 + 3) \times (3 \times (3 + 3)^3 - 3)) \\
&:= (44 \times (44 + 44)) - 4/4 \\
&:= 5 + (((555 + 5^5) / 5 + 5^5) + 5) \\
&:= 6/6 + ((6 + 6 + 6) \times (6 \times 6 \times 6 - 6/6)) \\
&:= 7 \times ((7 \times 77 + 7) + 7) \\
&:= (8 \times 88 \times 88 / (8 + 8)) - 8/8 \\
&:= 9/9 + ((9 \times (((9 + 9) / 9)^9 - 9 \times 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3872 &:= (1 + 1) \times ((1 + 1)^{11} - (1 + 111)) \\
&:= 2 \times (2 \times 22)^2 \\
&:= 3 + (((3 + 3) \times (3 \times (3 + 3)^3 - 3)) - 3/3) \\
&:= 44 \times (44 + 44) \\
&:= 5^5 + (((555 + 55) + 5^5) / 5) \\
&:= 6 + ((6 \times 666) - (((6 + 6) / 6)^6 + 66)) \\
&:= 7/7 + (7 \times ((7 \times 77 + 7) + 7)) \\
&:= 8 \times 88 \times 88 / (8 + 8) \\
&:= (9 + 9) / 9 + ((9 \times (((9 + 9) / 9)^9 - 9 \times 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3873 &:= ((1 + 1) \times ((1 + 1)^{11} - 111)) - 1 \\
&:= 2/2 + (2 \times (2 \times 22)^2) \\
&:= 3 + ((3 + 3) \times (3 \times (3 + 3)^3 - 3)) \\
&:= 4/4 + (44 \times (44 + 44)) \\
&:= 5^5 + ((5^5 - 5 - 5) / 5 + 5 \times 5 \times 5) \\
&:= (6 \times 666) - ((666 / 6 + 6) + 6) \\
&:= (7 + 7) / 7 + (7 \times ((7 \times 77 + 7) + 7)) \\
&:= 8/8 + (8 \times 88 \times 88 / (8 + 8)) \\
&:= 9 + ((99 + 9) / 9 \times ((9 + 9) \times (9 + 9) - ((9 + 9) / 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3874 &:= (1 + 1) \times ((1 + 1)^{11} - 111) \\
&:= 2 + (2 \times (2 \times 22)^2) \\
&:= 3 + (((3 + 3) \times (3 \times (3 + 3)^3 - 3)) + 3/3) \\
&:= (4 + 4) / 4 + (44 \times (44 + 44)) \\
&:= 5^5 + (((5^5 - 5) / 5 + 5 \times 5 \times 5) \\
&:= (((6 + 6) / 6)^{6+6}) - (6 \times 6 \times 6 + 6) \\
&:= 7 \times 7 \times 77 + (7777 / 77) \\
&:= (8 + 8) / 8 + (8 \times 88 \times 88 / (8 + 8)) \\
&:= 9 + ((9 + 9) \times (9 \times (9 + 9) - 9) + 9999 / 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3875 &:= 1 + ((1 + 1) \times ((1 + 1)^{11} - 111)) \\
&:= 2 + ((2 \times (2 \times 22)^2) + 2/2) \\
&:= ((3^3 + 3/3) + 3) \times ((3 - 3/3 + 3)^3) \\
&:= 4 + ((44 \times (44 + 44)) - 4/4) \\
&:= 5 \times (5 \times (5 \times (5 \times 5 + 5) + 5)) \\
&:= (6 \times 666) - ((66/6) \times (66/6)) \\
&:= 77/7 + ((7 \times ((7 \times 77 + 7) + 7)) - 7) \\
&:= ((88 \times 88 + 8) / ((8 + 8) / 8)) - 8/8 \\
&:= 9 + (((9 + 9) / 9) \times ((9 + 9) \times (99 + 9) - (99 / 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3876 &:= (1 + 1) \times (1 + ((1 + 1)^{11} - 111)) \\
&:= 2 \times ((2 \times 22)^2 + 2) \\
&:= (3 \times (((3 + 3)^{3+3} - 3)) - 3) \\
&:= 4 + (44 \times (44 + 44)) \\
&:= 5^5 + (5 \times 5 \times (5 \times 5 + 5) + 5/5) \\
&:= (6 \times (6 \times 6 \times (6 + 6 + 6))) - 6 - 6 \\
&:= (77 - 7/7) \times ((7 + 7) / 7 + 7 \times 7) \\
&:= (88 \times 88 + 8) / ((8 + 8) / 8) \\
&:= (99 + 9) / 9 \times ((9 + 9) \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3877 &:= 1 + ((1 + 1) \times (1 + ((1 + 1)^{11} - 111))) \\
&:= 2/2 + (2 \times ((2 \times 22)^2 + 2)) \\
&:= ((3/3 + 3)^{3+3}) - ((3 + 3)^3 + 3) \\
&:= 4 + ((44 \times (44 + 44)) + 4/4) \\
&:= 5^5 + (5 \times 5 \times (5 \times 5 + 5) + ((5 + 5) / 5)) \\
&:= (6 \times (6 \times 6 \times (6 + 6 + 6))) - 66/6 \\
&:= 7 + ((7 \times ((7 \times 77 + 7) + 7)) - 7/7) \\
&:= 8/8 + ((88 \times 88 + 8) / ((8 + 8) / 8)) \\
&:= (9 \times (((9 + 9) / 9)^9 - 9 \times 9)) - (9 + 9) / 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3878 &:= (1+1) \times (1+(1+((1+1)^{11}-111))) \\
&:= 2+(2 \times ((2 \times 22)^2+2)) \\
&:= (3 \times (((3+3)^{3/3+3})-3))-3/3 \\
&:= 4+((44 \times (44+44))+(4+4)/4) \\
&:= ((5+5)/5+5) \times (555-5/5) \\
&:= (6-66)/6+(6 \times (6 \times 6 \times (6+6+6))) \\
&:= 7+(7 \times ((7 \times 77+7)+7)) \\
&:= 8+((8 \times 88 \times 88/(8+8))-((8+8)/8)) \\
&:= (9 \times (((9+9)/9)^9)-9 \times 9)-9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3879 &:= 1+((1+1) \times (1+(1+((1+1)^{11}-111)))) \\
&:= 2+((2 \times ((2 \times 22)^2+2))+2/2) \\
&:= 3 \times (((3+3)^{3/3+3})-3) \\
&:= 4+(((44 \times (44+44))-4/4)+4) \\
&:= 5+(((5^5-5)/5+5 \times 5 \times 5)+5^5) \\
&:= (6 \times 666)-(666/6+6) \\
&:= 7+(7 \times ((7 \times 77+7)+7))+7/7 \\
&:= 8+((8 \times 88 \times 88/(8+8))-8/8) \\
&:= 9 \times (((9+9)/9)^9)-9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3880 &:= (1+1) \times (1+(1+(1+((1+1)^{11}-111)))) \\
&:= 2 \times (((2 \times 22)^2+2)+2) \\
&:= ((3/3+3)^{3+3})-(3+3)^3 \\
&:= 4+((44 \times (44+44))+4) \\
&:= 5+(5 \times 5 \times (5 \times 5+5)+5^5) \\
&:= (((6+6)/6)^{6+6})-6 \times 6 \times 6 \\
&:= (7-((7+7)/7)) \times (777-7/7) \\
&:= 8+(8 \times 88 \times 88/(8+8)) \\
&:= 9/9+(9 \times (((9+9)/9)^9)-9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3881 &:= ((1+1+1) \times 11^{1+1+1})-(1+111) \\
&:= 2/2+(2 \times (((2 \times 22)^2+2)+2)) \\
&:= 3+((3 \times (((3+3)^{3/3+3})-3))-3/3) \\
&:= 4+(((44 \times (44+44))+4/4)+4) \\
&:= 5+((5 \times 5 \times (5 \times 5+5)+5^5)+5/5) \\
&:= (6 \times (6 \times 6 \times (6+6+6)))-6/6-6 \\
&:= ((77-7)/7)+(7 \times ((7 \times 77+7)+7)) \\
&:= ((8 \times 8-8/8)^{(8+8)/8})-88 \\
&:= (9+9)/9+(9 \times (((9+9)/9)^9)-9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3882 &:= ((1+1+1) \times 11^{1+1+1})-111 \\
&:= 2+(2 \times (((2 \times 22)^2+2)+2)) \\
&:= 3+(3 \times (((3+3)^{3/3+3})-3)) \\
&:= 44+(((4+4)^4)-((4+4)/4+4^4)) \\
&:= (5/5+5) \times (((55+55)+5^5)/5) \\
&:= (6 \times (6 \times 6 \times (6+6+6)))-6 \\
&:= 77/7+(7 \times ((7 \times 77+7)+7)) \\
&:= 8+((8 \times 88 \times 88/(8+8))+((8+8)/8)) \\
&:= ((9+9+9)/9)+(9 \times (((9+9)/9)^9)-9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3883 &:= 11 \times (1+(11 \times ((11 \times (1+1+1))-1))) \\
&:= 22/2+(2 \times (2 \times 22)^2) \\
&:= 3+(((3/3+3)^{3+3})-(3+3)^3) \\
&:= 44+(((4+4)^4)-(4/4+4^4)) \\
&:= ((5/5+5)^5)/((5+5)/5)-5 \\
&:= 6/6+((6 \times (6 \times 6 \times (6+6+6)))-6) \\
&:= 7 \times 7 \times 77+(777-7)/7 \\
&:= 88/8+(8 \times 88 \times 88/(8+8)) \\
&:= 99+(9999/9+99 \times (9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3884 &:= (111 \times (1+(1+11 \times (1+1+1))))-1 \\
&:= 2 \times (((2 \times 22)^2+2)+2)+2 \\
&:= (3 \times (((3+3)^{3/3+3})-3/3+3) \\
&:= 44+(((4+4)^4)-4^4) \\
&:= (555 \times ((5+5)/5+5))-5/5 \\
&:= (6 \times 666)-(666+6)/6 \\
&:= 777/7+7 \times 7 \times 77 \\
&:= 8+((88 \times 88+8)/((8+8)/8)) \\
&:= ((9+9)/9) \times ((9+9) \times (99+9))-((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3885 &:= 111 \times (1+(1+11 \times (1+1+1))) \\
&:= 2+(2 \times (2 \times 22)^2)+22/2 \\
&:= (3 \times (((3+3)^{3/3+3})-3) \\
&:= 44+(((4+4)^4)-4^4)+4/4) \\
&:= 555 \times ((5+5)/5+5) \\
&:= (6 \times 666)-666/6 \\
&:= 777 \times (7-((7+7)/7)) \\
&:= (8-8/8) \times (8888-8)/(8+8) \\
&:= 999/9 \times (((9-9/9)+9)+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3886 &:= 1+(111 \times (1+(1+11 \times (1+1+1)))) \\
&:= (2 \times (2 \times (2 \times (22^2+2))))-2 \\
&:= 3/3+((3 \times (((3+3)^{3/3+3})-3)) \\
&:= 44+(((4+4)^4)-4^4)+(4+4)/4) \\
&:= 5/5+(555 \times ((5+5)/5+5)) \\
&:= 6+(((6+6)/6)^{6+6})-6 \times 6 \times 6 \\
&:= 7/7+(777 \times (7-((7+7)/7))) \\
&:= 8+(((8 \times 88 \times 88/(8+8))-((8+8)/8))+8) \\
&:= ((9+9)/9) \times ((9+9) \times (99+9)-9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3887 &:= (1+(11+11)) \times (1+1+11)^{1+1} \\
&:= 22/2+(2 \times ((2 \times 22)^2+2)) \\
&:= (3 \times (((3+3)^{3/3+3})-3/3) \\
&:= ((44+4) \times (4-4/4^4))-4/4 \\
&:= ((5/5+5)^5)/((5+5)/5)-5/5 \\
&:= (6 \times (6 \times 6 \times (6+6+6)))-6/6 \\
&:= 7+((7-((7+7)/7)) \times (777-7/7)) \\
&:= 8+(((8 \times 88 \times 88/(8+8))-8/8)+8) \\
&:= ((99+9) \times ((9+9+9)+9))-9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3888 &:= (1+1+1) \times ((1+1+1) \times (1+11))^{1+1} \\
&:= 2 \times (2 \times (2 \times (22^2+2))) \\
&:= 3 \times ((3+3)^{3/3+3}) \\
&:= (44+4) \times (4-4/4^4) \\
&:= (5/5+5)^5/((5+5)/5) \\
&:= 6 \times (6 \times 6 \times (6+6+6)) \\
&:= (7777-7/7)/((7+7)/7) \\
&:= 8+((8 \times 88 \times 88/(8+8))+8) \\
&:= (99+9) \times ((9+9+9)+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3889 &:= 1+((1+1+1) \times ((1+1+1) \times (1+11))^{1+1}) \\
&:= 2/2+(2 \times (2 \times (2 \times (22^2+2)))) \\
&:= 3/3+(3 \times ((3+3)^{3/3+3})) \\
&:= 4/4+((44+4) \times (4-4/4^4)) \\
&:= 5/5+((5/5+5)^5/((5+5)/5)) \\
&:= 6/6+(6 \times (6 \times 6 \times (6+6+6))) \\
&:= (7777+7/7)/((7+7)/7) \\
&:= 8+(((8 \times 8-8/8)^{(8+8)/8})-88) \\
&:= 9/9+((99+9) \times ((9+9+9)+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3890 &:= (11-1) \times (((1+1) \times (11-1))^{1+1}-11) \\
&:= 2+(2 \times (2 \times (2 \times (22^2+2)))) \\
&:= 3+((3 \times (((3+3)^{3/3+3})-3/3) \\
&:= (4+4)/4+((44+4) \times (4-4/4^4)) \\
&:= 5+(555 \times ((5+5)/5+5)) \\
&:= (6+6)/6+(6 \times (6 \times 6 \times (6+6+6))) \\
&:= (7-((7+7)/7)) \times (777+7/7) \\
&:= ((8/8-8 \times 8) \times (((8+8)/8)-8 \times 8))-8-8 \\
&:= (9+9)/9+((99+9) \times ((9+9+9)+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3891 &:= (1+1+1) \times (1+((1+1+1) \times (1+11))^{1+1}) \\
&:= 2+((2 \times (2 \times (2 \times (22^2+2))))+2/2) \\
&:= 3+(3 \times (((3+3)^{3/3+3})) \\
&:= 4+(((44+4) \times (4-4/4^4))-4/4) \\
&:= 5+((555 \times ((5+5)/5+5))+5/5) \\
&:= ((6^{6-6/6})+6)/((6+6)/6) \\
&:= 7+(777/7+7 \times 7 \times 77) \\
&:= 8+((8 \times 88 \times 88/(8+8))+88/8) \\
&:= (99+9)/9+(9 \times (((9+9)/9)^9)-9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3892 &:= 1+((1+1+1) \times (1+((1+1+1) \times (1+11))^{1+1})) \\
&:= 2 \times ((2 \times (2 \times (22^2+2))))+2) \\
&:= 3+((3 \times (((3+3)^{3/3+3}))+3/3) \\
&:= 4+((44+4) \times (4-4/4^4)) \\
&:= ((5+5)/5+5) \times (555+5/5) \\
&:= 6+(((6+6)/6)^{6+6})-6 \times 6 \times 6+6) \\
&:= 7+(777 \times (7-((7+7)/7))) \\
&:= 8+(((88 \times 88+8)/((8+8)/8))+8) \\
&:= ((9+9)/9) \times ((9+9) \times (99+9))+((9+9)/9)
\end{aligned}$$

- ▶ 3893 := $11 + (((1 + 1 + 1) \times 11^{1+1+1}) - 111)$
:= $22 + ((2 \times (2 \times 22)^2) - 2/2)$
:= $3 \times ((33/3)^3 - 33) - 3/3$
:= $4 + (((44 + 4) \times (4 - 4/4)^4) + 4/4)$
:= $5 + ((5/5 + 5)^5 / ((5 + 5)/5))$
:= $6 + ((6 \times (6 \times 6 \times (6 + 6 + 6))) - 6/6)$
:= $((7/7 + 7 \times 7) \times (7/7 + 77)) - 7$
:= $(8 \times (8 \times 8 \times 8 - (8 + 8 + 8))) - 88/8$
:= $9 + (((9 + 9)/9) \times ((9 + 9) \times (99 + 9) - ((9 + 9)/9)))$
- ▶ 3894 := $(1 + 1) \times (11 + ((1 + 1)^{11} - (1 + 111)))$
:= $22 + (2 \times (2 \times 22)^2)$
:= $3 \times ((33/3)^3 - 33)$
:= $(4 + 4)/4 \times (44 \times 44 + 44/4)$
:= $(5/5 + 5) \times ((5^5 - 5)/5 + 5 \times 5)$
:= $6 + (6 \times (6 \times 6 \times (6 + 6 + 6)))$
:= $77/7 \times (7 \times 7 \times 7 + (77/7))$
:= $(8 - 88)/8 + (8 \times (8 \times 8 \times 8 - (8 + 8 + 8)))$
:= $9 + (999/9 \times (((9 - 9/9) + 9) + 9) + 9)$
- ▶ 3895 := $((1 + 1) \times (11 + ((1 + 1)^{11} - 111))) - 1$
:= $22 + ((2 \times (2 \times 22)^2) + 2/2)$
:= $3/3 + (3 \times ((33/3)^3 - 33))$
:= $44 + ((44/4 - 4^4) + ((4 + 4)^4))$
:= $5 \times ((5^5 - 5)/(5 - 5/5)) - 5$
:= $6 + ((6 \times (6 \times 6 \times (6 + 6 + 6))) + 6/6)$
:= $7 + ((7777 - 7/7)/(7 + 7/7))$
:= $(8 \times (8 \times 8 \times 8 - (8 + 8 + 8))) - (8/8 + 8)$
:= $9 + (((9 + 9)/9) \times ((9 + 9) \times (99 + 9) - 9/9))$
- ▶ 3896 := $(1 + 1) \times (11 + ((1 + 1)^{11} - 111))$
:= $2 + ((2 \times (2 \times 22)^2) + 22)$
:= $3 \times (((3 + 3)^{3/3+3}) + 3) - 3/3$
:= $((4^4 + 4) \times (44/4 + 4)) - 4$
:= $5/5 + ((5 \times ((5^5 - 5)/(5 - 5/5))) - 5)$
:= $6 \times (666 - 6) - ((6 + 6)/6)^6$
:= $7 + ((7777 + 7/7)/(7 + 7/7))$
:= $(8 \times (8 \times 8 \times 8 - (8 + 8 + 8))) - 8$
:= $9 + (((99 + 9) \times ((9 + 9 + 9) + 9)) - 9/9)$
- ▶ 3897 := $1 + ((1 + 1) \times (11 + ((1 + 1)^{11} - 111)))$
:= $2 + (((2 \times (2 \times 22)^2) + 22) + 2/2)$
:= $3 \times (((3 + 3)^{3/3+3}) + 3)$
:= $4/4 + (((4^4 + 4) \times (44/4 + 4)) - 4)$
:= $5 + (((5 + 5)/5 + 5) \times (555 + 5/5))$
:= $6 + (((6^{6-6/6}) + 6)/(6 + 6)/6)$
:= $7 + ((7 - ((7 + 7)/7)) \times (777 + 7/7))$
:= $8/8 + ((8 \times (8 \times 8 \times 8 - (8 + 8 + 8))) - 8)$
:= $9 + ((99 + 9) \times ((9 + 9 + 9) + 9))$
- ▶ 3898 := $(1 + 1) \times (1 + (11 + ((1 + 1)^{11} - 111)))$
:= $22 + (2 \times ((2 \times 22)^2 + 2))$
:= $3/3 + (3 \times (((3 + 3)^{3/3+3}) + 3))$
:= $((4^4 + 4) \times (44/4 + 4)) - (4 + 4)/4$
:= $5 + (((5/5 + 5)^5 / ((5 + 5)/5)) + 5)$
:= $((66 - 6)/6) + (6 \times (6 \times 6 \times (6 + 6 + 6)))$
:= $77 + ((7 \times (7 \times 77 + 7)) - 7/7)$
:= $((8/8 - 8 \times 8) \times (((8 + 8)/8) - 8 \times 8)) - 8$
:= $9 + (((99 + 9) \times ((9 + 9 + 9) + 9)) + 9/9)$
- ▶ 3899 := $1 + ((1 + 1) \times (1 + (11 + ((1 + 1)^{11} - 111))))$
:= $22 + ((2 \times (2 \times 22)^2 + 2)) + 2/2$
:= $33/3 + (3 \times ((3 + 3)^{3/3+3}))$
:= $((4^4 + 4) \times (44/4 + 4)) - 4/4$
:= $(5 \times ((5^5 - 5)/(5 - 5/5))) - 5/5$
:= $66/6 + (6 \times (6 \times 6 \times (6 + 6 + 6)))$
:= $77 + (7 \times (7 \times 77 + 7))$
:= $(8 - 8/8) \times (8 \times (8 \times 8 + 8) - (88/8 + 8))$
:= $99/9 + ((99 + 9) \times ((9 + 9 + 9) + 9))$
- ▶ 3900 := $(1 + 1 + 1) \times (1 + 1 + 11) \times (11 - 1)^{1+1}$
:= $2 + ((2 \times (2 \times 22)^2 + 2)) + 22$
:= $3 + (3 \times (((3 + 3)^{3/3+3}) + 3))$
:= $(4^4 + 4) \times (44/4 + 4)$
:= $5 \times ((5^5 - 5)/(5 - 5/5))$
:= $(6 - 66) \times (6/6 - 66)$
:= $(7/7 + 7 \times 7) \times (7/7 + 77)$
:= $(8/8 + 8 \times 8) \times (8 \times 8 - (8/(8 + 8)/8))$
:= $(99 + 9)/9 \times ((9 + 9) \times (9 + 9) + 9/9)$
- ▶ 3901 := $1 + ((1 + 1 + 1) \times (1 + 1 + 11) \times (11 - 1)^{1+1})$
:= $2 + (((2 \times (2 \times 22)^2 + 2)) + 2/2) + 22$
:= $3 + ((3 \times (((3 + 3)^{3/3+3}) + 3)) + 3/3)$
:= $4/4 + ((4^4 + 4) \times (44/4 + 4))$
:= $5/5 + (5 \times ((5^5 - 5)/(5 - 5/5)))$
:= $6/6 + ((6 - 66) \times (6/6 - 66))$
:= $7 \times 7 \times 77 + ((7 + 7)/7)^7$
:= $8 + ((8 \times (8 \times 8 \times 8 - (8 + 8 + 8))) - (88/8))$
:= $((9 \times 9 - 99/9)^{(9+9)/9}) - 999$
- ▶ 3902 := $((1 + 11^{1+1}) \times ((11 \times (1 + 1 + 1)) - 1)) - 1 - 1$
:= $22 + (2 \times (((2 \times 22)^2 + 2) + 2))$
:= $3 + ((3 \times ((3 + 3)^{3/3+3})) + 33/3)$
:= $((4 + 4)^4) + ((4^4 - 4 - 4)/4 - 4^4)$
:= $5^5 + (((5 + 5)/5 + 5) \times 555/5)$
:= $6 + ((6 \times (666 - 6)) - ((6 + 6)/6)^6)$
:= $7/7 + (7 \times 7 \times 77 + ((7 + 7)/7)^7)$
:= $(8 \times (8 \times 8 \times 8 - (8 + 8 + 8))) - (8 + 8)/8$
:= $((9 + 9)/9) \times (((9 + 9) \times (99 + 9) - ((9 + 9)/9)) + 9)$
- ▶ 3903 := $((1 + 11^{1+1}) \times ((11 \times (1 + 1 + 1)) - 1)) - 1$
:= $(2 \times ((2 \times 22)^2 + 2^{2+2})) - 2/2$
:= $3 \times (((33/3)^3 - 33) + 3)$
:= $((4 + 4)^4) + (((4^4 - 4)/4) - 4^4)$
:= $5 + (((5/5 + 5)^5 / ((5 + 5)/5)) + 5) + 5$
:= $6 + (((6^{6-6/6}) + 6)/(6 + 6)/6) + 6$
:= $7 + (((7777 + 7/7)/(7 + 7/7)) + 7)$
:= $(8 \times (8 \times 8 \times 8 - (8 + 8 + 8))) - 8/8$
:= $9 + ((999/9 \times (((9 - 9/9) + 9) + 9) + 9)) + 9$
- ▶ 3904 := $(1 + 11^{1+1}) \times ((11 \times (1 + 1 + 1)) - 1)$
:= $2 \times ((2 \times 22)^2 + 2^{2+2})$
:= $((3/3 + 3)^3) \times (((3/3 + 3)^3) - 3)$
:= $4 \times (4 \times ((4^4 - 4 \times 4) + 4))$
:= $5 + ((5 \times ((5^5 - 5)/(5 - 5/5))) - 5/5)$
:= $((6 + 6)/6)^6 \times (66 - 6 + 6/6)$
:= $(7/7 + 7) \times (7 \times (77 - 7) - ((7 + 7)/7))$
:= $8 \times (8 \times 8 \times 8 - (8 + 8 + 8))$
:= $999 + (9 \times (9 + 9) \times (9 + 9) - (99/9))$
- ▶ 3905 := $1 + ((1 + 11^{1+1}) \times ((11 \times (1 + 1 + 1)) - 1))$
:= $22 + ((2 \times (2 \times 22)^2) + 22/2)$
:= $((3 + 3) \times (3 \times (3 + 3)^3 + 3)) - 3/3$
:= $4/4 + (4 \times (4 \times ((4^4 - 4 \times 4) + 4)))$
:= $5 + (5 \times ((5^5 - 5)/(5 - 5/5)))$
:= $6 + ((6 \times (6 \times 6 \times (6 + 6 + 6))) + (66/6))$
:= $7 + (((7 \times (7 \times 77 + 7)) - 7/7) + 77)$
:= $8/8 + (8 \times (8 \times 8 \times 8 - (8 + 8 + 8)))$
:= $9 + (((99 + 9) \times ((9 + 9 + 9) + 9)) - 9/9) + 9$
- ▶ 3906 := $1 + (1 + ((1 + 11^{1+1}) \times ((11 \times (1 + 1 + 1)) - 1)))$
:= $2 + (2 \times ((2 \times 22)^2 + 2^{2+2}))$
:= $(3 + 3) \times (3 \times (3 + 3)^3 + 3)$
:= $((4^4 - 4)/4) \times (4^4 - 4 - 4)/4$
:= $5^5 + ((5^5 - 5/5)/(5 - 5/5))$
:= $6 + ((6 - 66) \times (6/6 - 66))$
:= $7 + ((7 \times (7 \times 77 + 7)) + 77)$
:= $(8/8 - 8 \times 8) \times (((8 + 8)/8) - 8 \times 8)$
:= $9 + (((99 + 9) \times ((9 + 9 + 9) + 9)) + 9)$
- ▶ 3907 := $(1 + 1)^{11} + (11 \times (1 + 1 + 11)^{1+1})$
:= $2 + ((2 \times (2 \times 22)^2 + 2^{2+2})) + 2/2$
:= $3/3 + ((3 + 3) \times (3 \times (3 + 3)^3 + 3))$
:= $4 + (((4^4 - 4)/4) - 4^4) + ((4 + 4)^4)$
:= $5 + (((5 + 5)/5 + 5) \times 555/5) + 5^5$
:= $6 + (((6 - 66) \times (6/6 - 66)) + 6/6)$
:= $7 + ((7/7 + 7 \times 7) \times (7/7 + 77))$
:= $8/8 + ((8/8 - 8 \times 8) \times (((8 + 8)/8) - 8 \times 8))$
:= $9 + (((99 + 9) \times ((9 + 9 + 9) + 9)) + 9/9) + 9$

- ▶ 3908 := $((111-1)^{1+1}) - ((1+1)^{1+1+1})$
:= $2 \times ((2 \times 22)^2 + 2^{2+2}) + 2$
:= $3 + (((3+3) \times (3 \times (3+3)^3 + 3)) - 3/3)$
:= $4 + (4 \times (4 \times ((4^4 - 4 \times 4) + 4)))$
:= $5 \times 5 + (((5/5 + 5)^5 / ((5+5)/5)) - 5)$
:= $6 + (((6 \times (666 - 6)) - ((6+6)/6)^6) + 6)$
:= $7 + (7 \times 7 \times 77 + ((7+7)/7)^7)$
:= $8 \times 8 + ((8 \times 8 - ((8+8)/8))^{(8+8)/8})$
:= $9 + (((99+9) \times ((9+9+9) + 9)) + (99/9))$
- ▶ 3909 := $1 + (((111-1)^{1+1}) - ((1+1)^{1+1+1}))$
:= $22 + ((2 \times ((2 \times 22)^2 + 2)) + 22/2)$
:= $3 + ((3+3) \times (3 \times (3+3)^3 + 3))$
:= $((4+4)^4) - (4 \times 44 + 44/4)$
:= $5^5 + ((55/5 + 5^5) / (5 - 5/5))$
:= $((6^{6-6/6}) + 6 \times 6) + 6 / ((6+6)/6)$
:= $((77-7) \times (7 \times 7 + 7)) - 77/7$
:= $8 \times 8 \times 8 \times 8 - ((88/8 + 88) + 88)$
:= $9 + ((99+9)/9 \times ((9+9) \times (9+9) + 9/9))$
- ▶ 3910 := $(1 + (11 + 11)) \times (1 + (1 + 1 + 11)^{1+1})$
:= $22 + (2 \times (2 \times (2 \times (22^2 + 2))))$
:= $3 + (((3+3) \times (3 \times (3+3)^3 + 3)) + 3/3)$
:= $4 + (((4^4 - 4)/4) \times (4^4 - 4 - 4)/4)$
:= $5 + ((5 \times ((5^5 - 5)/5 - 5/5)) + 5)$
:= $6 + (((6+6)/6)^6 \times (66 - 6 + 6/6))$
:= $77 + ((7 \times (7 \times 77 + 7)) + (77/7))$
:= $8 + ((8 \times (8 \times 8 \times 8 - (8+8+8))) - ((8+8)/8))$
:= $(9/9 + 9) \times (((99/9 + 9)^{(9+9)/9}) - 9)$
- ▶ 3911 := $1 + ((1 + (11 + 11)) \times (1 + (1 + 1 + 11)^{1+1}))$
:= $(2 \times (((2 \times 22)^2 - 2) + 22)) - 2/2$
:= $(3 \times ((33/3)^3 - 3^3)) - 3/3$
:= $44/4 + ((4^4 + 4) \times (44/4 + 4))$
:= $5 + (((5^5 - 5/5) / (5 - 5/5)) + 5^5)$
:= $66/6 + ((6 - 66) \times (6/6 - 66))$
:= $((77 - 7) \times (7 \times 7 + 7)) - ((7+7)/7 + 7)$
:= $8 + ((8 \times (8 \times 8 \times 8 - (8+8+8))) - 8/8)$
:= $((9 \times 9 \times 99 + 9/9) / ((9+9)/9)) - 99$
- ▶ 3912 := $(1 + 11) \times ((1 + 1 + 1) \times (111 - 1 - 1) - 1)$
:= $2 \times (((2 \times 22)^2 - 2) + 22)$
:= $3 \times ((33/3)^3 - 3^3)$
:= $((4+4)^4) - ((4 \times 44 + 4) + 4)$
:= $(5/5 + 5) \times ((5^5 + 5 + 5)/5 + 5 \times 5)$
:= $(6 \times (666 - (6+6))) - 6 - 6$
:= $(7/7 + 7) \times (7 \times (77 - 7) - 7/7)$
:= $8 + (8 \times (8 \times 8 \times 8 - (8+8+8)))$
:= $(99 + 9)/9 \times ((9+9) \times (9+9) + ((9+9)/9))$
- ▶ 3913 := $1 + ((1 + 11) \times ((1 + 1 + 1) \times (111 - 1 - 1) - 1))$
:= $2/2 + (2 \times (((2 \times 22)^2 - 2) + 22))$
:= $3/3 + (3 \times ((33/3)^3 - 3^3))$
:= $4 + (((4+4)^4) - (4 \times 44 + 44/4))$
:= $5 \times 5 + ((5/5 + 5)^5 / ((5+5)/5))$
:= $(6 \times (666 - (6+6))) - 66/6$
:= $((77 - 7) \times (7 \times 7 + 7)) - 7$
:= $8 + ((8 \times (8 \times 8 \times 8 - (8+8+8))) + 8/8)$
:= $999 + (9 \times (9+9) \times (9+9) - ((9+9)/9))$
- ▶ 3914 := $((1 + (1 + 11))^{1+1}) \times (1 + 1 + 1)^{1+1+1} - 1$
:= $(2 \times ((2 \times 22)^2 + 22)) - 2$
:= $3 + ((3 \times ((33/3)^3 - 3^3)) - 3/3)$
:= $((4+4)^4) - ((4 \times 44 + (4+4)/4) + 4)$
:= $55 \times (55 + 5) + ((5^5 - 55)/5)$
:= $(6 - 66)/6 + (6 \times (666 - (6+6)))$
:= $7/7 + (((77 - 7) \times (7 \times 7 + 7)) - 7)$
:= $8 + ((8/8 - 8 \times 8) \times (((8+8)/8) - 8 \times 8))$
:= $999 + (9 \times (9+9) \times (9+9) - 9/9)$
- ▶ 3915 := $(1 + (1 + 11))^{1+1} \times (1 + 1 + 1)^{1+1+1}$
:= $(2 \times ((2 \times 22)^2 + 22)) - 2/2$
:= $3 + (3 \times ((33/3)^3 - 3^3))$
:= $((4+4)^4) - ((4 \times 44 + 4/4) + 4)$
:= $((5+5)/5 + 5) \times (555 + 5) - 5$
:= $6 \times (666 + 6) - (666/6 + 6)$
:= $7 + ((7 \times 7 \times 77 + ((7+7)/7)^7) + 7)$
:= $88/8 + (8 \times (8 \times 8 \times 8 - (8+8+8)))$
:= $999 + 9 \times (9+9) \times (9+9)$
- ▶ 3916 := $11 \times (((1 + 1 + 1) \times (11^{1+1} - (1 + 1))) - 1)$
:= $2 \times ((2 \times 22)^2 + 22)$
:= $3 + ((3 \times ((33/3)^3 - 3^3)) + 3/3)$
:= $((4+4)^4) - (4 \times 44 + 4)$
:= $55 + ((555 + 5^5) / 5 + 5^5)$
:= $(6 \times (6 - 6 \times 6)) + (((6+6)/6)^{6+6})$
:= $7 + (((77 - 7) \times (7 \times 7 + 7)) - (77/7))$
:= $(8/8 + 88) \times (88 / ((8+8)/8))$
:= $9/9 + (9 \times (9+9) \times (9+9) + 999)$
- ▶ 3917 := $1 + (11 \times (((1 + 1 + 1) \times (11^{1+1} - (1 + 1))) - 1))$
:= $2/2 + (2 \times ((2 \times 22)^2 + 22))$
:= $33/3 + ((3+3) \times (3 \times (3+3)^3 + 3))$
:= $4/4 + (((4+4)^4) - (4 \times 44 + 4))$
:= $5 + ((5/5 + 5) \times ((5^5 + 5 + 5)/5 + 5 \times 5))$
:= $(6 \times (666 - (6+6))) - 6/6 - 6$
:= $((77 - 7) \times (7 \times 7 + 7)) - (7 + 7 + 7)/7$
:= $8/8 + ((8/8 + 88) \times (88 / ((8+8)/8)))$
:= $(9 + 9)/9 + (9 \times (9+9) \times (9+9) + 999)$
- ▶ 3918 := $(1 + 1) \times (11 + (11 + ((1 + 1)^{11} - 111)))$
:= $2 + (2 \times ((2 \times 22)^2 + 22))$
:= $3 + ((3 \times ((33/3)^3 - 3^3)) + 3)$
:= $((4+4)^4) - (4 \times 44 + (4+4)/4)$
:= $5 + (((5/5 + 5)^5 / ((5+5)/5)) + 5 \times 5)$
:= $(6 \times (666 - (6+6))) - 6$
:= $((77 - 7) \times (7 \times 7 + 7)) - (7 + 7)/7$
:= $8 \times 8 \times 8 \times 8 - (((8+8)/8 + 88) + 88)$
:= $999/9 + (9 \times ((9+9) \times (9+9) + 99))$
- ▶ 3919 := $((1 + 111) \times (1 + (1 + 11 \times (1 + 1 + 1)))) - 1$
:= $2 + ((2 \times ((2 \times 22)^2 + 22)) + 2/2)$
:= $3 + (((3 \times ((33/3)^3 - 3^3)) + 3/3) + 3)$
:= $((4+4)^4) - (4 \times 44 + 4/4)$
:= $(5^5 - 5)/5 + (55 \times (55 + 5) - 5)$
:= $6/6 + ((6 \times (666 - (6+6))) - 6)$
:= $((77 - 7) \times (7 \times 7 + 7)) - 7/7$
:= $8 \times 8 \times 8 \times 8 - ((88 + 88) + 8/8)$
:= $9 + ((9/9 + 9) \times (((99/9 + 9)^{(9+9)/9}) - 9))$
- ▶ 3920 := $(1 + 111) \times (1 + (1 + 11 \times (1 + 1 + 1)))$
:= $2 \times (((2 \times 22)^2 + 22) + 2)$
:= $33 + ((3 \times ((3+3)^{3/3+3}) - 3/3)$
:= $4 \times (4 \times 4^4 - 44)$
:= $((5+5)/5 + 5) \times (555 + 5)$
:= $(6 \times 6 - 6/6) \times (666 + 6)/6$
:= $(77 - 7) \times (7 \times 7 + 7)$
:= $8 \times 8 \times 8 \times 8 - (88 + 88)$
:= $(99 - 9/9) \times ((9 \times 9 \times 9 - 9) / (9 + 9))$
- ▶ 3921 := $1 + ((1 + 111) \times (1 + (1 + 11 \times (1 + 1 + 1))))$
:= $2/2 + (2 \times (((2 \times 22)^2 + 22) + 2))$
:= $3 \times (((33/3)^3 - 3^3) + 3)$
:= $4/4 + (4 \times (4 \times 4^4 - 44))$
:= $5/5 + (((5+5)/5 + 5) \times (555 + 5))$
:= $6 \times (666 + 6) - 666/6$
:= $7/7 + ((77 - 7) \times (7 \times 7 + 7))$
:= $8 \times (8 \times 8 \times 8 - 8) - 888/8$
:= $9 + ((99 + 9)/9 \times ((9+9) \times (9+9) + ((9+9)/9)))$
- ▶ 3922 := $1 + (1 + ((1 + 111) \times (1 + (1 + 11 \times (1 + 1 + 1))))))$
:= $2 + (2 \times (((2 \times 22)^2 + 22) + 2))$
:= $3/3 + ((3 \times ((3+3)^{3/3+3}) + 33)$
:= $((4+4)^4) + ((4+4)/4 - 4 \times 44)$
:= $((5+5)/5)^5 + 5 \times (555/5 - 5)$
:= $(6 \times (666 - (6+6))) - (6+6)/6$
:= $(7+7)/7 + ((77 - 7) \times (7 \times 7 + 7))$
:= $((8 - 888)/8) + 8 \times (8 \times 8 \times 8 - 8)$
:= $9 + ((9 \times (9+9) \times (9+9) - ((9+9)/9)) + 999)$

$$\begin{aligned}
\blacktriangleright 3923 &:= ((1+1+1) \times ((1+11) \times (111-1-1))) - 1 \\
&:= 2 + ((2 \times ((2 \times 22)^2 + 22) + 2)) + 2/2 \\
&:= 33/3 + (3 \times ((33/3)^3 - 3^3)) \\
&:= 4 + (((4+4)^4) - (4 \times 44 + 4/4)) \\
&:= 5^5 + (((5 - (5+5)/5)^5) + 555) \\
&:= (6 \times (666 - (6+6))) - 6/6 \\
&:= (7+7+7)/7 + ((77-7) \times (7 \times 7+7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - (8+8+8))) + (88/8)) \\
&:= 9 + ((9 \times (9+9) \times (9+9) - 9/9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3924 &:= (1+1+1) \times ((1+11) \times (111-1-1)) \\
&:= 2 \times (((2 \times 22)^2 + 22) + 2) + 2 \\
&:= (3+3) \times ((3 \times (3+3)^3 + 3) + 3) \\
&:= 4 + (4 \times (4 \times 4^4 - 44)) \\
&:= (5^5 - 5)/5 + 55 \times (55 + 5) \\
&:= 6 \times (666 - (6+6)) \\
&:= 77/7 + (((77-7) \times (7 \times 7+7)) - 7) \\
&:= 8 + ((8/8+88) \times (88/((8+8)/8))) \\
&:= 9 + (9 \times (9+9) \times (9+9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3925 &:= 1 + ((1+1+1) \times ((1+11) \times (111-1-1))) \\
&:= ((2^{2+2+2} - 2/2)^2) - (2 \times 22) \\
&:= 3/3 + ((3+3) \times ((3 \times (3+3)^3 + 3) + 3)) \\
&:= 4 + ((4 \times (4 \times 4^4 - 44)) + 4/4) \\
&:= 5 \times (((5^5 - 5)/5) + 55) + 5 \\
&:= 6/6 + (6 \times (666 - (6+6))) \\
&:= 7 + (((77-7) \times (7 \times 7+7)) - ((7+7)/7)) \\
&:= 8 \times 8 \times 8 \times 8 - ((8/8+8) \times (88/8+8)) \\
&:= ((9-9/9) \times (((9+9)/9)^9) - 9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3926 &:= ((1+1)^{1+11}) - (1 + (1+1+11)^{1+1}) \\
&:= 2 + (2 \times (((2 \times 22)^2 + 22) + 2) + 2) \\
&:= (3 \times (33/3)^3) - (((3/3+3)^3) + 3) \\
&:= 4 + (((4+4)/4 - 4 \times 44) + ((4+4)^4)) \\
&:= (5^5 + 5)/5 + 55 \times (55 + 5) \\
&:= (6+6)/6 + (6 \times (666 - (6+6))) \\
&:= 7 + (((77-7) \times (7 \times 7+7)) - 7/7) \\
&:= 8 + (8 \times 8 \times 8 \times 8 - (((8+8)/8+88) + 88)) \\
&:= 99/9 + (9 \times (9+9) \times (9+9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3927 &:= 11 \times ((1+1+1) \times (11^{1+1} - (1+1))) \\
&:= 22/2 + (2 \times ((2 \times 22)^2 + 22)) \\
&:= 3 + ((3+3) \times ((3 \times (3+3)^3 + 3) + 3)) \\
&:= 4 + (((4+4)^4) - (4 \times 44 + 4/4)) + 4 \\
&:= ((5+5)/5 + 5) \times ((555+5/5) + 5) \\
&:= 6 + (6 \times (666 + 6) - 666/6) \\
&:= 7 + ((77-7) \times (7 \times 7+7)) \\
&:= 8 + (8 \times 8 \times 8 \times 8 - ((88+88) + 8/8)) \\
&:= 9 + ((9 \times ((9+9) \times (9+9) + 999)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3928 &:= 1 + (11 \times ((1+1+1) \times (11^{1+1} - (1+1)))) \\
&:= 2 \times (((((2 \times 22)^2 + 22) + 2) + 2) + 2) \\
&:= 3 + (((3+3) \times ((3 \times (3+3)^3 + 3) + 3)) + 3/3) \\
&:= 4 + ((4 \times (4 \times 4^4 - 44)) + 4) \\
&:= 5 + (((5 - (5+5)/5)^5) + 555) + 5^5 \\
&:= (6 \times 666) - (((6+6)/6) + 66) \\
&:= 7 + (((77-7) \times (7 \times 7+7)) + 7/7) \\
&:= 8 + (8 \times 8 \times 8 \times 8 - 88 - 88) \\
&:= (9 - 9/9) \times (((9 \times 999 + 9)/(9+9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3929 &:= 1 + (1 + (11 \times ((1+1+1) \times (11^{1+1} - (1+1)))))) \\
&:= 2 + ((2 \times ((2 \times 22)^2 + 22)) + 22/2) \\
&:= (3 \times (33/3)^3) - ((3/3+3)^3) \\
&:= 4 + (((4 \times (4 \times 4^4 - 44)) + 4/4) + 4) \\
&:= 5 + (55 \times (55 + 5) + (5^5 - 5)/5) \\
&:= (6 \times 666) - (66 + 6/6) \\
&:= 7 + (((77-7) \times (7 \times 7+7)) + ((7+7)/7)) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) - 888/8) \\
&:= 9 + ((99 - 9/9) \times ((9 \times 9 \times 9 - 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3930 &:= (11-1) \times ((1+1+1) \times ((11 \times (1+11)) - 1)) \\
&:= (2 \times ((2 \times (2 \times (22^2 + 2))) + 22)) - 2 \\
&:= 3 \times (((33/3)^3 - 3^3) + 3) + 3 \\
&:= ((4+4)^4) + ((44-4)/4 - 4 \times 44) \\
&:= 5 + ((5 \times (5 \times ((5+5)/5)^5) + 5^5) \\
&:= (6 \times 666) - 66 \\
&:= ((77-7)/7) + ((77-7) \times (7 \times 7+7)) \\
&:= 8 + (((8-888)/8) + 8 \times (8 \times 8 \times 8 - 8)) \\
&:= 9 + (((99+9)/9 \times ((9+9) \times (9+9) + ((9+9)/9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3931 &:= 1 + ((11-1) \times ((1+1+1) \times ((11 \times (1+11)) - 1))) \\
&:= 22/2 + (2 \times (((2 \times 22)^2 + 22) + 2)) \\
&:= ((3/3+3)^{3+3}) - ((3+3) \times 3^3 + 3) \\
&:= 44/4 + (4 \times (4 \times 4^4 - 44)) \\
&:= 5 + (55 \times (55 + 5) + (5^5 + 5)/5) \\
&:= 6/6 + ((6 \times 666) - 66) \\
&:= 77/7 + ((77-7) \times (7 \times 7+7)) \\
&:= 88/8 + (8 \times 8 \times 8 \times 8 - 88 - 88) \\
&:= ((99/9+9) \times ((99-9/9) + 99)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3932 &:= (1+1) \times ((1+1)^{11} - (1 + (11-1-1)^{1+1})) \\
&:= 2 \times ((2 \times (2 \times (22^2 + 2))) + 22) \\
&:= 3 + ((3 \times (33/3)^3) - ((3/3+3)^3)) \\
&:= ((4+4)^4) + ((4 \times (4-44)) - 4) \\
&:= 5 + (55 \times (55 + 5) + (5^5 + 5 + 5)/5) \\
&:= (6 \times 666) - ((6+6)/6)^6 \\
&:= (77+7)/7 + ((77-7) \times (7 \times 7+7)) \\
&:= 8 \times 8 + ((88 \times 88 - 8)/(8+8)/8) \\
&:= (9 \times (((9 \times 9 \times 99 + 9)/(9+9)) - 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3933 &:= (1+1+1) \times (1+1+11 \times (11^{1+1} - 1-1)) \\
&:= (22+2/2) \times (((22/2+2)^2) + 2) \\
&:= 3 \times (((3+3) \times ((3+3)^3 + 3)) - 3) \\
&:= 4/4 + (((4 \times (4-44)) - 4) + ((4+4)^4)) \\
&:= 55 + (((5+5)/5+5) \times (555-5/5)) \\
&:= 6/6 + ((6 \times 666) - ((6+6)/6)^6) \\
&:= 777/7 + (7 \times (7 \times 77+7)) \\
&:= (8/8+8) \times (8 \times (8 \times 8 - 8) - (88/8)) \\
&:= 9 \times (((9 \times 9 \times 99 + 9)/(9+9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3934 &:= (1+1) \times ((1+1)^{11} - (11-1-1)^{1+1}) \\
&:= 2 + (2 \times ((2 \times (2 \times (22^2 + 2))) + 22)) \\
&:= ((3/3+3)^{3+3}) - (3+3) \times 3^3 \\
&:= ((4+4)^4) + ((4 \times (4-44)) - (4+4)/4) \\
&:= 5 + ((55 \times (55 + 5) + (5^5 - 5)/5) + 5) \\
&:= 6 + ((6 \times 666) - (((6+6)/6) + 66)) \\
&:= 7 + (((77-7) \times (7 \times 7+7)) + 7) \\
&:= (8-88)/8 + (8 \times (8 \times 8 \times 8 - 8) - 88) \\
&:= ((9-9/9) \times ((9+9)/9)^9) - 9 \times (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3935 &:= 1 + ((1+1) \times ((1+1)^{11} - (11-1-1)^{1+1})) \\
&:= 2 + ((22+2/2) \times (((22/2+2)^2) + 2)) \\
&:= 3 + (((3 \times (33/3)^3) - ((3/3+3)^3)) + 3) \\
&:= ((4+4)^4) + ((4 \times (4-44)) - 4/4) \\
&:= 5^5 + ((5+5+5) \times (55-5/5)) \\
&:= 6 + ((6 \times 666) - (66 + 6/6)) \\
&:= 7 + (((77-7) \times (7 \times 7+7)) + 7/7) + 7 \\
&:= 8 \times (8 \times 8 \times 8 - 8) - ((8/8+88) + 8) \\
&:= 9 + ((9 \times (9+9) \times (9+9) + (99/9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3936 &:= (1+11) \times (1 + ((1+1+1) \times (111-1-1))) \\
&:= 2 \times ((2 \times 22)^2 + 2 \times 2^{2+2}) \\
&:= 3 + (3 \times ((3+3) \times ((3+3)^3 + 3)) - 3) \\
&:= 4 \times ((4 \times 4^4 - 44) + 4) \\
&:= (5/5+5) \times (((5^5 + 5)/5 + 5 \times 5) + 5) \\
&:= 6 + ((6 \times 666) - 66) \\
&:= (7/7+7) \times (7 \times (77-7) + ((7+7)/7)) \\
&:= 8 \times (88 \times 88/(8+8) + 8) \\
&:= (9-9/9) \times (((9+9)/9)^9) - (99/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3937 &:= 1 + ((1+11) \times (1 + ((1+1+1) \times (111-1-1)))) \\
&:= 22 + ((2 \times ((2 \times 22)^2 + 22)) - 2/2) \\
&:= 3 + (((3/3+3)^{3+3}) - (3+3) \times 3^3) \\
&:= 4/4 + ((4 \times (4-44)) + ((4+4)^4)) \\
&:= 5^5 + (((5+5)/5+5) \times (555/5+5)) \\
&:= 6 + (((6 \times 666) - 66) + 6/6) \\
&:= 7 + (((77-7) \times (7 \times 7+7)) + ((77-7)/7)) \\
&:= 8/8 + (8 \times (88 \times 88/(8+8) + 8)) \\
&:= 9 + ((9-9/9) \times (((9 \times 999 + 9)/(9+9)) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3938 &:= 11 \times (1 + ((1 + 1 + 1) \times (11^{1+1} - (1 + 1)))) \\
&:= 22 + (2 \times ((2 \times 22)^2 + 22)) \\
&:= (3 \times ((33/3)^3 + 3)) - ((3/3 + 3)^3) \\
&:= ((4 + 4)^4) + ((4 \times (4 - 44)) + (4 + 4)/4) \\
&:= 55 + (((5/5 + 5)^5 / ((5 + 5)/5)) - 5) \\
&:= 6 + ((6 \times 666) - ((6 + 6)/6)^6) \\
&:= 7 + (((77 - 7) \times (7 \times 7 + 7)) + (77/7)) \\
&:= (8 + 8)/8 + (8 \times (88 \times 88 / (8 + 8) + 8)) \\
&:= ((99 + 99)/9) \times ((9 \times 9 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3939 &:= 1 + (11 \times (1 + ((1 + 1 + 1) \times (11^{1+1} - (1 + 1)))))) \\
&:= (((2 \times 2 \times 22 + 2)^2) - 222)/2 \\
&:= 3 \times ((33/3)^3 - (3 \times (3 + 3))) \\
&:= 4 + (((4 \times (4 - 44)) - 4/4) + ((4 + 4)^4)) \\
&:= 5^5 + (55 \times (5 + 5 + 5) - (55/5)) \\
&:= 6 + (((6 \times 666) - ((6 + 6)/6)^6) + 6/6) \\
&:= (7 \times (7 \times (77 + 7) - 7)) - ((7 + 7)/7)^7 \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - 88 - 88) + (88/8)) \\
&:= 99 + ((99/9 + 9) \times (999/9 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3940 &:= ((1 + 1)^{1+11}) - ((1 + 11) \times (1 + 1 + 11)) \\
&:= 2 + (2 \times ((2 \times 22)^2 + 22)) + 22 \\
&:= 3/3 + (3 \times ((33/3)^3 - (3 \times (3 + 3)))) \\
&:= 4 + ((4 \times (4 - 44)) + ((4 + 4)^4)) \\
&:= 55 + (555 \times ((5 + 5)/5 + 5)) \\
&:= ((66 - 6)/6) + ((6 \times 666) - 66) \\
&:= 7 + ((7 \times (7 \times 77 + 7)) + 777/7) \\
&:= 8 \times 8 + ((88 \times 88 + 8)/(8 + 8)/8) \\
&:= (99/9 + 9) \times ((99 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3941 &:= ((1 + 1)^{1+11}) - (11 + (1 + 11)^{1+1}) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) - 222)/2 \\
&:= (3 \times ((3 + 3) \times ((3 + 3)^3 + 3))) - 3/3 \\
&:= ((4 + 4)^4) - (444/4 + 44) \\
&:= 5 + (((55 + 5^5)/5) + 55 \times (55 + 5)) \\
&:= 66/6 + ((6 \times 666) - 66) \\
&:= 7 + (((77 - 7) \times (7 \times 7 + 7)) + 7) + 7 \\
&:= 8 + ((8/8 + 8) \times (8 \times (8 \times 8 - 8) - (88/8))) \\
&:= ((9 + 9) \times ((999/9 + 99) + 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3942 &:= ((1 + 1)^{1+11}) - (11 \times (1 + (1 + 1 + 11))) \\
&:= 22 + (2 \times (((2 \times 22)^2 + 22) + 2)) \\
&:= 3 \times ((3 + 3) \times ((3 + 3)^3 + 3)) \\
&:= ((4 + 4)^4) + (((4 - 444)/4) - 44) \\
&:= (5/5 + 5) \times (((5 + 5)/5)^5 + 5^5/5) \\
&:= 6 + (((6 \times 666) - 66) + 6) \\
&:= 7 + (((77 - 7) \times (7 \times 7 + 7)) + 7/7) + 7) + 7 \\
&:= 8 \times (8 \times 8 \times 8 - 8) - ((8 + 8)/8 + 88) \\
&:= (9 + 9) \times ((999/9 + 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3943 &:= 1 + (((1 + 1)^{1+11}) - (11 \times (1 + (1 + 1 + 11)))) \\
&:= 222 + ((2^{2+2+2} - (2/2 + 2)^2) \\
&:= 3/3 + (3 \times ((3 + 3) \times ((3 + 3)^3 + 3))) \\
&:= 4 + (((4 \times (4 - 44)) - 4/4) + ((4 + 4)^4) + 4) \\
&:= 55 + ((5/5 + 5)^5 / ((5 + 5)/5)) \\
&:= (6 \times (666 - 6)) - (66/6 + 6) \\
&:= ((7 + 7)/7)^7 + ((7 \times (7 \times 77 + 7)) - 7) \\
&:= 8 \times (8 \times 8 \times 8 - 8) - (8/8 + 88) \\
&:= ((9 - 9/9) \times (((9 + 9)/9)^9 - 9)) - 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3944 &:= 1 + (1 + (((1 + 1)^{1+11}) - (11 \times (1 + (1 + 1 + 11)))))) \\
&:= 2 \times ((2 \times 22)^2 + (2 + 2 + 2)^2) \\
&:= 3 + ((3 \times ((3 + 3) \times ((3 + 3)^3 + 3))) - 3/3) \\
&:= 4 + (((4 \times (4 - 44)) + ((4 + 4)^4) + 4) \\
&:= 5^5 + (55 \times (5 + 5 + 5) - (5/5 + 5)) \\
&:= 6 + (((6 \times 666) - ((6 + 6)/6)^6) + 6) \\
&:= (7/7 + 7) \times (7 \times (77 - 7) + ((7 + 7 + 7)/7)) \\
&:= 8 \times (8 \times 8 \times 8 - 8) - 88 \\
&:= (9 - 9/9) \times (((9 + 9)/9)^9 - (9/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3945 &:= 11 + ((1 + 1) \times ((1 + 1)^{11} - (11 - 1 - 1)^{1+1})) \\
&:= ((2^{2+2+2} - 2/2)^2) - (22 + 2) \\
&:= 3 + (3 \times ((3 + 3) \times ((3 + 3)^3 + 3))) \\
&:= 4 + (((4 + 4)^4) - (444/4 + 44)) \\
&:= 5^5 + (55 \times (5 + 5 + 5) - 5) \\
&:= 66 + ((6 \times 666) - (666/6 + 6)) \\
&:= 7 + (((77 - 7) \times (7 \times 7 + 7)) + (77/7)) + 7 \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 - 8) - 88) \\
&:= 9 + ((9 - 9/9) \times (((9 + 9)/9)^9 - (99/9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3946 &:= ((1 + 11) \times (((1 + 1 + 1) \times (111 - 1) - 1)) - 1 - 1) \\
&:= 2 + (2 \times ((2 \times 22)^2 + (2 + 2 + 2)^2)) \\
&:= 3 + ((3 \times ((3 + 3) \times ((3 + 3)^3 + 3))) + 3/3) \\
&:= ((4 + 4)^4) - ((44 + 4^4)/(4 + 4)/4) \\
&:= 5^5 + ((55 \times (5 + 5 + 5) - 5) + 5/5) \\
&:= 66 + (((6 + 6)/6)^{6+6}) - 6 \times 6 \times 6 \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) - ((7 + 7)/7)^7) \\
&:= (8 + 8)/8 + (8 \times (8 \times 8 \times 8 - 8) - 88) \\
&:= 9999/9 + (9 \times ((9 + 9) \times (9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3947 &:= ((1 + 11) \times (((1 + 1 + 1) \times (111 - 1) - 1)) - 1) \\
&:= ((2^{2+2+2} - 2/2)^2) - 22 \\
&:= 3 + (((3 \times ((3 + 3) \times ((3 + 3)^3 + 3))) - 3/3) + 3) \\
&:= 44/4 + ((4 \times (4 - 44)) + ((4 + 4)^4)) \\
&:= 5 + ((5/5 + 5) \times (((5 + 5)/5)^5 + 5^5/5)) \\
&:= (6 \times (666 - 6)) - (6/6 + 6 + 6) \\
&:= 77 + ((7 \times ((7 \times 77 + 7) + 7)) - 7/7) \\
&:= 88/8 + (8 \times (88 \times 88 / (8 + 8) + 8)) \\
&:= 9 + (((99 + 99)/9) \times ((9 \times 9 - 9/9) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3948 &:= (1 + 11) \times (((1 + 1 + 1) \times (111 - 1)) - 1) \\
&:= 2 \times (((2 \times 22)^2 + (2 + 2 + 2)^2) + 2) \\
&:= 3 + ((3 \times ((3 + 3) \times ((3 + 3)^3 + 3))) + 3) \\
&:= (4 \times ((4 \times (4^4 - 4 - 4)) - 4)) - 4 \\
&:= 5 + (((5/5 + 5)^5 / ((5 + 5)/5)) + 55) \\
&:= (6 \times (666 - 6)) - 6 - 6 \\
&:= 77 + (7 \times ((7 \times 77 + 7) + 7)) \\
&:= 8 + (((88 \times 88 + 8)/(8 + 8)/8) + 8 \times 8) \\
&:= 9 \times 9 \times 9 + (999/9 \times (99/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3949 &:= 11 \times (((1 + 1 + 1) \times (11^{1+1} - 1)) - 1) \\
&:= 2 + (((2^{2+2+2} - 2/2)^2) - 22) \\
&:= 33/3 \times ((333 - 3/3) + 3^3) \\
&:= 4/4 + ((4 \times ((4 \times (4^4 - 4 - 4)) - 4)) - 4) \\
&:= 5^5 + (55 \times (5 + 5 + 5) - 5/5) \\
&:= (6 \times (666 - 6)) - 66/6 \\
&:= 7/7 + ((7 \times ((7 \times 77 + 7) + 7)) + 77) \\
&:= (8 \times (8 \times 8 \times 8 - 8 - 8)) - (88/8 + 8) \\
&:= 9 + ((99/9 + 9) \times ((99 - 9/9) + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3950 &:= 1 + (11 \times (((1 + 1 + 1) \times (11^{1+1} - 1)) - 1)) \\
&:= (2 \times ((2 \times 22)^2 + 2 \times (22 - 2))) - 2 \\
&:= (3 \times ((33/3)^3 - 3)) - 3/3 - 33 \\
&:= ((4 + 4)^4) + ((444 - 4)/4 - 4^4) \\
&:= 5^5 + 55 \times (5 + 5 + 5) \\
&:= (6 - 66)/6 + (6 \times (666 - 6)) \\
&:= ((7 + 7)/7)^7 + (7 \times (7 \times 77 + 7)) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) - ((8 + 8)/8 + 88)) \\
&:= (9/9 + 9) \times (((9 + 9)/9)^9 - (99 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3951 &:= ((1 + 1)^{1+11}) - (1 + (1 + 11)^{1+1}) \\
&:= (2/2 + 2)^2 \times (((22 - 2/2)^2) - 2) \\
&:= 3 \times (((3 + 3) \times ((3 + 3)^3 + 3)) + 3) \\
&:= ((4 + 4)^4) + (444/4 - 4^4) \\
&:= 5^5 + (55 \times (5 + 5 + 5) + 5/5) \\
&:= 66 + ((6 \times 666) - 666/6) \\
&:= 7/7 + ((7 \times (7 \times 77 + 7)) + ((7 + 7)/7)^7) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) - (8/8 + 88)) \\
&:= ((9 \times 9 - (9 + 9))^{(9+9)/9}) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3952 &:= ((1 + 1)^{1+11}) - (1 + 11)^{1+1} \\
&:= 2 \times ((2 \times 22)^2 + 2 \times (22 - 2)) \\
&:= 3/3 + (3 \times (((3 + 3) \times ((3 + 3)^3 + 3)) + 3)) \\
&:= 4 \times ((4 \times (4^4 - 4 - 4)) - 4) \\
&:= 5^5 + (55 \times (5 + 5 + 5) + ((5 + 5)/5)) \\
&:= (((6 + 6)/6)^{6+6}) - (6 + 6) \times (6 + 6) \\
&:= (77 - 7/7) \times (((7 + 7 + 7)/7) + 7 \times 7) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) - 88) \\
&:= (9 - 9/9) \times (((9 + 9)/9)^9 - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3953 &:= 1 + (((1+1)^{1+1}) - (1+11)^{1+1}) \\
&:= (2/2 + 2)^{2+2} + (2 \times (2 \times 22)^2) \\
&:= 33/3 + (3 \times ((3+3) \times ((3+3)^3 + 3))) \\
&:= 4/4 + (4 \times ((4 \times (4^4 - 4 - 4)) - 4)) \\
&:= 5 + (((5/5 + 5)^5 / ((5+5)/5)) + 55) + 5 \\
&:= (6 \times (666 - 6)) - 6/6 - 6 \\
&:= 77 + ((77 - 7/7) \times ((7+7)/7 + 7 \times 7)) \\
&:= ((8 \times 8 - 8/8)^{(8+8)/8}) - 8 - 8 \\
&:= 9/9 + ((9 - 9/9) \times (((9+9)/9)^9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3954 &:= 1 + (1 + (((1+1)^{1+1}) - (1+11)^{1+1})) \\
&:= 2 + (2 \times ((2 \times 22)^2 + 2 \times (22 - 2))) \\
&:= 3 + (3 \times (((3+3) \times ((3+3)^3 + 3)) + 3)) \\
&:= (4+4)/4 + (4 \times ((4 \times (4^4 - 4 - 4)) - 4)) \\
&:= 5 + ((55 \times (5+5+5) - 5/5) + 5^5) \\
&:= (6 \times (666 - 6)) - 6 \\
&:= 7 + (((7 \times ((7 \times 77 + 7) + 7)) - 7/7) + 77) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 8) - 88) + ((8+8)/8)) \\
&:= (9 \times 9 \times 99 - 999/9) / ((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3955 &:= (1+1+111) \times (1 + (1+11 \times (1+1+1))) \\
&:= 222/2 + ((2^{2+2+2} - 2)^2) \\
&:= (3 \times (33/3)^3) - (33/3 + 3^3) \\
&:= 4 + ((444/4 - 4^4) + ((4+4)^4)) \\
&:= 5 + (55 \times (5+5+5) + 5^5) \\
&:= 6/6 + ((6 \times (666 - 6)) - 6) \\
&:= 7 + ((7 \times ((7 \times 77 + 7) + 7)) + 77) \\
&:= 88/8 + (8 \times (8 \times 8 \times 8 - 8) - 88) \\
&:= 9 + ((9 \times ((9+9) \times (9+9) - 9)) + 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3956 &:= (1+1) \times ((1+1) \times ((11-1)^{1+1+1} - 11)) \\
&:= 2 \times (((2 \times 22)^2 - 2) + 2 \times 22) \\
&:= (3/3 + 3) \times ((3 \times (333 - 3)) - 3/3) \\
&:= 4 + (4 \times ((4 \times (4^4 - 4 - 4)) - 4)) \\
&:= 5 + ((55 \times (5+5+5) + 5^5) + 5/5) \\
&:= (6+6)/6 + ((6 \times (666 - 6)) - 6) \\
&:= (7 \times (7 \times (77 + 7) - 7)) - 777/7 \\
&:= 88 + ((88 \times 88 - 8) / ((8+8)/8)) \\
&:= ((9 \times 9 - 9) / (9+9)) \times (999 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3957 &:= (1+1+1) \times (11^{1+1+1} - (1+11)) \\
&:= 2 + (((2^{2+2+2} - 2)^2) + 222/2) \\
&:= 3 \times ((33/3)^3 - (3 \times 3 + 3)) \\
&:= (4 \times (4 \times (4^4 - 4 - 4))) - 44/4 \\
&:= 5^5 + ((5 \times 5 + 5/5) \times ((5+5)/5)^5) \\
&:= (6 \times (666 - 6)) - 6 \times 6 / (6+6) \\
&:= 7 + ((7 \times (7 \times 77 + 7)) + ((7+7)/7)^7) \\
&:= (8 \times (8 \times 8 \times 8 - 8) - 88/8) \\
&:= ((9 \times 9 - (9+9))^{(9+9)/9}) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3958 &:= 1 + ((1+1+1) \times (11^{1+1+1} - (1+11))) \\
&:= (2 \times 2222) - (22^2 + 2) \\
&:= 3/3 + (3 \times ((33/3)^3 - (3 \times 3 + 3))) \\
&:= (4 - 44)/4 + (4 \times (4 \times (4^4 - 4 - 4))) \\
&:= 5^5 + (((5^5 - 5) / (5+5+5)) + 5^5/5) \\
&:= (6 \times (666 - 6)) - (6+6)/6 \\
&:= (7 \times (7 \times (77 - 7) + 77)) - 77/7 \\
&:= (8 - 88)/8 + (8 \times (8 \times 8 \times 8 - 8) - 8) \\
&:= ((9 \times 9 - (9+9))^{(9+9)/9}) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3959 &:= (11 \times ((1+1+1) \times (11^{1+1} - 1))) - 1 \\
&:= (2 \times 2222) - (22^2 + 2/2) \\
&:= (3 \times (33/3)^3) - 3/3 - 33 \\
&:= 4444 - ((44 \times 44 + 4)/4) \\
&:= ((55 + 5) \times (55/5 + 55)) - 5/5 \\
&:= (6 \times (666 - 6)) - 6/6 \\
&:= 7 + ((77 - 7/7) \times (((7+7+7)/7) + 7 \times 7)) \\
&:= (8 \times (8 \times 8 \times 8 - 8) - (8/8 + 8)) \\
&:= ((9 \times 9 - (9+9))^{(9+9)/9}) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3960 &:= 11 \times ((1+1+1) \times (11^{1+1} - 1)) \\
&:= 2 \times ((2 \times 22)^2 + 2 \times 22) \\
&:= (3 \times 3 + 3) \times (333 - 3) \\
&:= (4/4 + 4 + 4) \times (444 - 4) \\
&:= (55 + 5) \times (55/5 + 55) \\
&:= 6 \times (666 - 6) \\
&:= (77/7 + 7 \times 7) \times (77 - 77/7) \\
&:= (8 \times (8 \times 8 \times 8 - 8) - 8) \\
&:= 9 \times (((9+9)/9)^9) - 9 \times 9 + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3961 &:= 1 + (11 \times ((1+1+1) \times (11^{1+1} - 1))) \\
&:= 2/2 + (2 \times ((2 \times 22)^2 + 2 \times 22)) \\
&:= 3/3 + ((3 \times 3 + 3) \times (333 - 3)) \\
&:= (((4^4 - 4)/4)^{(4+4)/4}) - 4 - 4 \\
&:= 5^5 + (55 \times (5+5+5) + (55/5)) \\
&:= 6/6 + (6 \times (666 - 6)) \\
&:= 77 + (777/7 + 7 \times 7 \times 77) \\
&:= ((8 \times 8 - 8/8)^{(8+8)/8}) - 8 \\
&:= 9 + ((9 - 9/9) \times (((9+9)/9)^9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3962 &:= 1 + (1 + (11 \times ((1+1+1) \times (11^{1+1} - 1)))) \\
&:= 2 + (2 \times ((2 \times 22)^2 + 2 \times 22)) \\
&:= 3 + ((3 \times (33/3)^3) - (3/3 + 33)) \\
&:= ((4+4)^4) - (((4^4 + 4) / ((4+4)/4)) + 4) \\
&:= ((5+5)/5 + 5) \times (555 + (55/5)) \\
&:= (6+6)/6 + (6 \times (666 - 6)) \\
&:= (7 \times (7 \times (77 - 7) + 77)) - 7 \\
&:= 8/8 + (((8 \times 8 - 8/8)^{(8+8)/8}) - 8) \\
&:= (9+9)/9 + (9 \times (((9+9)/9)^9) - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3963 &:= (1+1+1) \times 1 + 11 \times (11^{1+1} - 1) \\
&:= ((2^{2+2+2} - 2/2)^2) - (2+2+2) \\
&:= 3 + ((3 \times 3 + 3) \times (333 - 3)) \\
&:= (4 \times (4 \times (4^4 - 4 - 4))) - (4/4 + 4) \\
&:= (((5+5)/5)^5 \times (5 \times 5 \times 5 - 5/5)) - 5 \\
&:= (6 \times 6 / (6+6)) + (6 \times (666 - 6)) \\
&:= 7/7 + ((7 \times (7 \times (77 - 7) + 77)) - 7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 8) - 88) + (88/8)) \\
&:= 9 + ((9 \times 9 \times 99 - 999/9) / ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3964 &:= ((1+1)^{1+1+1}) - (11 \times (1+11)) \\
&:= 2 \times (((2 \times 22)^2 + 2 \times 22) + 2) \\
&:= 3 + (((3 \times 3 + 3) \times (333 - 3)) + 3/3) \\
&:= (4 \times (4 \times (4^4 - 4 - 4))) - 4 \\
&:= ((5^5/5 + 5) / (5+5))^{(5+5)/5} - 5 \\
&:= 6 + ((6 \times (666 - 6)) - ((6+6)/6)) \\
&:= 7 + (((7 \times (7 \times 77 + 7)) + ((7+7)/7)^7) + 7) \\
&:= 88 + ((88 \times 88 + 8) / ((8+8)/8)) \\
&:= ((9 \times 9 - 9) / (9+9)) \times ((999 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3965 &:= 1 + (((1+1)^{1+1+1}) - (11 \times (1+11))) \\
&:= ((2^{2+2+2} - 2/2)^2) - 2 - 2 \\
&:= (3 \times (33/3)^3) - (3^3 + 3/3) \\
&:= (((4^4 - 4)/4)^{(4+4)/4}) - 4 \\
&:= 5 + ((55 + 5) \times (55/5 + 55)) \\
&:= 6 + ((6 \times (666 - 6)) - 6/6) \\
&:= 7 + ((7 \times (7 \times (77 - 7) + 77)) - (77/7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 8) - (88/8)) \\
&:= ((9 \times (9 \times 99 - 9) - 9) + 9/9) / ((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3966 &:= 1 + (1 + (((1+1)^{1+1+1}) - (11 \times (1+11)))) \\
&:= 2 + (2 \times (((2 \times 22)^2 + 2 \times 22) + 2)) \\
&:= 3 \times ((33/3)^3 - 3 \times 3) \\
&:= ((4+4)^4) - ((4^4 + 4) / ((4+4)/4)) \\
&:= 5^5 + ((5 \times 5 - 5/5 + 5)^{(5+5)/5}) \\
&:= 6 + (6 \times (666 - 6)) \\
&:= 77 + ((7777 + 7/7) / ((7+7)/7)) \\
&:= (8 \times (8 \times 8 \times 8 - 8) - (8+8)/8) \\
&:= ((9 \times 9 - (9+9))^{(9+9)/9}) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3967 &:= (((1+1+1) \times (11 + (11-1)))^{1+1}) - 1 - 1 \\
&:= ((2^{2+2+2} - 2/2)^2) - 2 \\
&:= 3/3 + (3 \times ((33/3)^3 - 3 \times 3)) \\
&:= (4 \times (4 \times (4^4 - 4 - 4))) - 4/4 \\
&:= 5 + (((5+5)/5 + 5) \times (555 + (55/5))) \\
&:= 6 + ((6 \times (666 - 6)) + 6/6) \\
&:= (7 \times (7 \times (77 - 7) + 77)) - (7+7)/7 \\
&:= (8 \times (8 \times 8 \times 8 - 8) - 8/8) \\
&:= ((9 \times 9 - (9+9))^{(9+9)/9}) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3968 &:= (((1+1+1) \times (11+(11-1)))^{1+1}) - 1 \\
&:= 2 \times ((2 \times 22)^2 + 2 \times (22+2)) \\
&:= 3 + ((3 \times (33/3)^3) - (3^3 + 3/3)) \\
&:= 4 \times (4 \times (4^4 - 4 - 4)) \\
&:= ((5+5)/5)^5 \times (5 \times 5 \times 5 - 5/5) \\
&:= 6 + ((6 \times (666-6)) + ((6+6)/6)) \\
&:= (7 \times (7 \times (77-7) + 77)) - 7/7 \\
&:= 8 \times (8 \times 8 \times 8 - 8 - 8) \\
&:= ((9 \times 9 - (9+9))^{(9+9)/9}) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3969 &:= ((1+1+1) \times (11+(11-1)))^{1+1} \\
&:= (2^{2+2+2} - 2/2)^2 \\
&:= 3 + (3 \times ((33/3)^3 - 3 \times 3)) \\
&:= ((4^4 - 4)/4)^{(4+4)/4} \\
&:= ((5^5/5 + 5)/(5+5))^{(5+5)/5} \\
&:= (66 - (6 \times 6/(6+6)))^{(6+6)/6} \\
&:= 7 \times (7 \times (77-7) + 77) \\
&:= (8 \times 8 - 8/8)^{(8+8)/8} \\
&:= (9 \times 9 - (9+9))^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3970 &:= 1 + (((1+1+1) \times (11+(11-1)))^{1+1}) \\
&:= 2/2 + ((2^{2+2+2} - 2/2)^2) \\
&:= 3 + ((3 \times ((33/3)^3 - 3 \times 3)) + 3/3) \\
&:= 4/4 + (((4^4 - 4)/4)^{(4+4)/4}) \\
&:= (5 \times ((55+5^5)/(5-5/5))) - 5 \\
&:= ((66-6)/6) + (6 \times (666-6)) \\
&:= 7/7 + (7 \times (7 \times (77-7) + 77)) \\
&:= 8/8 + ((8 \times 8 - 8/8)^{(8+8)/8}) \\
&:= 9/9 + ((9 \times 9 - (9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3971 &:= 11 \times (((1+1) \times (11-1)) - 1)^{1+1} \\
&:= 2 + ((2^{2+2+2} - 2/2)^2) \\
&:= 33/3 + ((3 \times 3 + 3) \times (333-3)) \\
&:= 4 + ((4 \times (4 \times (4^4 - 4 - 4))) - 4/4) \\
&:= (5 - 5/5)^{5/5+5} - 5 \times 5 \times 5 \\
&:= 66/6 + (6 \times (666-6)) \\
&:= (7+7)/7 + (7 \times (7 \times (77-7) + 77)) \\
&:= 88/8 + ((8 \times 8 \times 8 - 8 - 8) - 8) \\
&:= (9+9)/9 + ((9 \times 9 - (9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3972 &:= 1 + (11 \times (((1+1) \times (11-1)) - 1)^{1+1}) \\
&:= 2 \times ((2 \times 22 - 2)^2 + 222) \\
&:= (3 \times ((33/3)^3 - (3+3))) - 3 \\
&:= 4 + (4 \times (4 \times (4^4 - 4 - 4))) \\
&:= 5^5 + (((555+555) + 5^5)/5) \\
&:= 6 + ((6 \times (666-6)) + 6) \\
&:= (7+7+7)/7 + (7 \times (7 \times (77-7) + 77)) \\
&:= (8/((8+8)/8)) + (8 \times (8 \times 8 - 8 - 8)) \\
&:= ((9+9+9)/9) + ((9 \times 9 - (9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3973 &:= ((1+1)^{1+11}) - (1 + (1+11^{1+1})) \\
&:= 2 + (((2^{2+2+2} - 2/2)^2) + 2) \\
&:= (3 \times ((33/3)^3 - 3)) - 33/3 \\
&:= 4 + (((4^4 - 4)/4)^{(4+4)/4}) \\
&:= 5 + (((5+5)/5)^5 \times (5 \times 5 \times 5 - 5/5)) \\
&:= 6 + (((6 \times (666-6)) + 6/6) + 6) \\
&:= 77/7 + ((7 \times (7 \times (77-7) + 77)) - 7) \\
&:= 8 + (((8 \times 8 \times 8 - 8 - 8) - (88/8)) + 8) \\
&:= ((9 \times (9 \times 99 - 9) - 9/9) + 9)/((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3974 &:= ((1+1)^{1+11}) - (1+11^{1+1}) \\
&:= (222 \times (2^{2+2} + 2)) - 22 \\
&:= (3 \times ((33/3)^3 - (3+3))) - 3/3 \\
&:= ((4+4)^4) - ((444+44)/4) \\
&:= 5 + ((5^5/5 + 5)/(5+5))^{(5+5)/5} \\
&:= (6 \times 666) - ((66+66)/6) \\
&:= 7 + ((7 \times (7 \times (77-7) + 77)) - ((7+7)/7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 8 - 8) - ((8+8)/8)) \\
&:= ((9 \times (9 \times 99 - 9) + 9/9) + 9)/((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3975 &:= ((1+1)^{1+11}) - 11^{1+1} \\
&:= (2^{2 \times (2+2+2)} - (22/2)^2) \\
&:= 3 \times ((33/3)^3 - (3+3)) \\
&:= ((4+4)^4) - ((44/4)^{(4+4)/4}) \\
&:= 5 \times ((55+5^5)/(5-5/5)) \\
&:= 6 + ((66 - (6 \times 6/(6+6)))^{(6+6)/6}) \\
&:= 7 + ((7 \times (7 \times (77-7) + 77)) - 7/7) \\
&:= 8 + ((8 \times 8 \times 8 - 8 - 8) - 8/8) \\
&:= 9 + (((9 \times 9 - (9+9))^{(9+9)/9}) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3976 &:= 1 + (((1+1)^{1+11}) - 11^{1+1}) \\
&:= 2 \times (2 \times ((2 \times (22^2 + 2)) + 22)) \\
&:= 3/3 + (3 \times ((33/3)^3 - (3+3))) \\
&:= 4 + ((4 \times (4 \times (4^4 - 4 - 4))) + 4) \\
&:= 5 + ((5 - 5/5)^{5/5+5} - 5 \times 5 \times 5) \\
&:= 6 + ((6 \times (666-6)) + ((66-6)/6)) \\
&:= 7 + (7 \times (7 \times (77-7) + 77)) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8 - 8)) \\
&:= 9 + (((9 \times 9 - (9+9))^{(9+9)/9}) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3977 &:= 1 + (1 + (((1+1)^{1+11}) - 11^{1+1})) \\
&:= 2 + ((2^{2 \times (2+2+2)} - (22/2)^2) \\
&:= 3 + ((3 \times ((33/3)^3 - (3+3))) - 3/3) \\
&:= 4 + (((4^4 - 4)/4)^{(4+4)/4}) + 4) \\
&:= (5+5)/5 + (5 \times ((55+5^5)/(5-5/5))) \\
&:= 6 + ((6 \times (666-6)) + (66/6)) \\
&:= 7 + ((7 \times (7 \times (77-7) + 77)) + 7/7) \\
&:= 8 + ((8 \times 8 - 8/8)^{(8+8)/8}) \\
&:= 9 + (((9 \times 9 - (9+9))^{(9+9)/9}) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3978 &:= 1 + (1 + (1 + (((1+1)^{1+11}) - 11^{1+1}))) \\
&:= (2/2 + 2)^2 \times (2 \times 222 - 2) \\
&:= 3 + (3 \times ((33/3)^3 - (3+3))) \\
&:= 4 + (((4+4)^4) - ((444+44)/4)) \\
&:= 5 + (((5+5)/5)^5 \times (5 \times 5 \times 5 - 5/5)) + 5) \\
&:= (6 \times 666) - 6 - 6 - 6 \\
&:= (7/7 + 77) \times ((7+7)/7 + 7 \times 7) \\
&:= 8 + (((8 \times 8 - 8/8)^{(8+8)/8}) + 8/8) \\
&:= 9 + ((9 \times 9 - (9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3979 &:= ((1+1+1) \times (11^{1+1+1} - 1)) - 11 \\
&:= 222/2 + (2 \times ((2 \times 22)^2 - 2)) \\
&:= (3 \times (33/3)^3) - (33/3 + 3) \\
&:= 44/4 + (4 \times (4 \times (4^4 - 4 - 4))) \\
&:= 5 + (((5^5/5 + 5)/(5+5))^{(5+5)/5} + 5) \\
&:= (6 \times 666) - (66/6 + 6) \\
&:= 7/7 + ((7/7 + 77) \times ((7+7)/7 + 7 \times 7)) \\
&:= 88/8 + (8 \times (8 \times 8 \times 8 - 8 - 8)) \\
&:= 9 + (((9 \times 9 - (9+9))^{(9+9)/9}) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3980 &:= 1 + (((1+1+1) \times (11^{1+1+1} - 1)) - 11) \\
&:= (2 - 22) \times ((2 - (22 - 2)^2)/2) \\
&:= (3 \times ((33/3)^3 - 3)) - (3/3 + 3) \\
&:= (4 \times ((4 \times (4^4 - 4 - 4)) + 4)) - 4 \\
&:= 5 + (5 \times ((55+5^5)/(5-5/5))) \\
&:= (6 - 66)/6 + ((6 \times 666) - 6) \\
&:= 77/7 + (7 \times (7 \times (77-7) + 77)) \\
&:= 88/8 + ((8 \times 8 - 8/8)^{(8+8)/8}) \\
&:= 99/9 + ((9 \times 9 - (9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3981 &:= ((1+1+1) \times 11^{1+1+1}) - 1 - 11 \\
&:= 222/2 + ((2 \times (2 \times 22)^2) - 2) \\
&:= (3 \times ((33/3)^3 - 3)) - 3 \\
&:= ((4+4)^4) - (444/4 + 4) \\
&:= 5 + (((5-5/5)^{5/5+5} - 5 \times 5 \times 5) + 5) \\
&:= (6 \times 666) + (6 - 6 \times 6)/((6+6)/6) \\
&:= (7 \times 7 \times (77+7)) - (((7+7)/7)^7 + 7) \\
&:= ((88+8)/8) + ((8 \times 8 - 8/8)^{(8+8)/8}) \\
&:= (99+9)/9 + ((9 \times 9 - (9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3982 &:= 11 \times ((11 \times (11 \times (1+1+1))) - 1) \\
&:= (2 \times 22)^2 + 2^{22/2} - 2 \\
&:= (3 \times (33/3)^3) - 33/3 \\
&:= ((4+4)^4) + (((4-444)/4) - 4) \\
&:= 5^5 + (55 \times (5+5+5) + ((5+5)/5)^5) \\
&:= (6 \times 666) - ((6+6)/6 + 6 + 6) \\
&:= 777/7 + (7 \times ((7 \times 77 + 7) + 7)) \\
&:= 8 + (((8 \times 8 \times 8 - 8 - 8) - ((8+8)/8)) + 8) \\
&:= ((99+99)/9) \times ((9/9+99) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3983 &:= ((1+1)^{1+11}) - (1+1+111) \\
&:= 222/2 + (2 \times (2 \times 22)^2) \\
&:= (3 \times ((33/3)^3 - 3)) - 3/3 \\
&:= ((4+4)^4) - ((444+4+4)/4) \\
&:= ((5+5)/5+5) \times ((5^5-5)/5-55) \\
&:= (6 \times 666) - (6/6+6+6) \\
&:= 7 + ((7 \times (7 \times (77-7) + 77)) + 7) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 - 8 - 8)) - 8/8) + 8) \\
&:= (99 \times (9-9 \times 9)) + (99999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3984 &:= ((1+1)^{1+11}) - (1+111) \\
&:= (2 \times 22)^2 + 2^{22/2} \\
&:= 3 \times ((33/3)^3 - 3) \\
&:= 4 \times ((4 \times (4^4 - 4 - 4)) + 4) \\
&:= (55/5+5) \times (5 \times 5 \times (5+5) - 5/5) \\
&:= (6 \times 666) - 6 - 6 \\
&:= (7 \times 7 - 7/7) \times (77 - 7/7 + 7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 8 - 8)) + 8) \\
&:= (99+9)/9 \times (((9+9) \times (9+9) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3985 &:= ((1+1)^{1+11}) - 111 \\
&:= (2^{2 \times (2+2+2)}) - 222/2 \\
&:= 3/3 + (3 \times ((33/3)^3 - 3)) \\
&:= ((4+4)^4) - 444/4 \\
&:= 5 + ((5 \times ((55+5^5)/(5-5/5))) + 5) \\
&:= (6 \times 666) - 66/6 \\
&:= 7 + ((7/7+77) \times ((7+7)/7+7 \times 7)) \\
&:= 8 \times 8 \times 8 \times 8 - 888/8 \\
&:= ((9-9/9) \times ((9+9)/9)^9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3986 &:= 1 + (((1+1)^{1+11}) - 111) \\
&:= 2 + ((2 \times 22)^2 + 2^{22/2}) \\
&:= 3 + ((3 \times ((33/3)^3 - 3)) - 3/3) \\
&:= ((4+4)^4) + ((4-444)/4) \\
&:= (5-5/5)^{5/5+5} - (55+55) \\
&:= (6-66)/6 + (6 \times 666) \\
&:= 77 + (((77-7) \times (7 \times 7 + 7)) - (77/7)) \\
&:= 8 \times 8 \times 8 \times 8 + ((8-888)/8) \\
&:= 9 + (((9 \times 9 - (9+9))^{(9+9)/9}) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3987 &:= 1 + (1 + (((1+1)^{1+11}) - 111)) \\
&:= 2 + ((2^{2 \times (2+2+2)}) - 222/2) \\
&:= 3 + (3 \times ((33/3)^3 - 3)) \\
&:= ((4+4)^4) + (((4-444) + 4)/4) \\
&:= 5^5 + ((5^5 - 55)/(5+5) + 555) \\
&:= (6 \times 666) + (((6-66) + 6)/6) \\
&:= 7 + ((7 \times (7 \times (77-7) + 77)) + (77/7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 8 - 8)) + (88/8)) \\
&:= 9 + (((9 \times 9 - (9+9))^{(9+9)/9}) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3988 &:= 1 + (1 + (1 + (((1+1)^{1+11}) - 111))) \\
&:= 2 + (((2 \times 22)^2 + 2^{22/2}) + 2) \\
&:= 3 + ((3 \times ((33/3)^3 - 3)) + 3/3) \\
&:= (4 \times 4 \times (4^4 - 4)) - 44 \\
&:= 5 + (((5+5)/5+5) \times ((5^5-5)/5-55)) \\
&:= (6 \times 666) - ((6+6)/6+6) \\
&:= (7 \times 7 \times (77+7)) - ((7+7)/7)^7 \\
&:= 8 \times (8 \times 8 \times 8 - 8) - (88/((8+8)/8)) \\
&:= ((9-9/9) \times ((9+9)/9)^9) - (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3989 &:= ((1+1+1) \times (11^{1+1+1} - 1)) - 1 \\
&:= (((22-2)^{2/2+2}) - 22)/2 \\
&:= (3 \times ((33/3)^3) - (3/3+3)) \\
&:= 4 + (((4+4)^4) - 444/4) \\
&:= 5^5 + ((55/5+5) \times (55-5/5)) \\
&:= (6 \times 666) - 6/6 - 6 \\
&:= (7 \times (7 \times (77+7) - 7)) - 7/7 - 77 \\
&:= 8 \times 8 \times 8 \times 8 - ((88/8+88) + 8) \\
&:= 9 + (((9 \times 9 - (9+9))^{(9+9)/9}) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3990 &:= (1+1+1) \times (11^{1+1+1} - 1) \\
&:= 2 \times ((2 \times 22 + 2)^2 - (22/2)^2) \\
&:= (3 \times ((33/3)^3) - 3) \\
&:= 4 + (((4-444)/4) + ((4+4)^4)) \\
&:= 5 \times (((5-5+5)/5)^5) + 555 \\
&:= (6 \times 666) - 6 \\
&:= (77-7) \times ((7/7+7 \times 7) + 7) \\
&:= (8-8/8) \times ((8 \times (8 \times 8 + 8) - 8) + ((8+8)/8)) \\
&:= (9/9+9+9) \times (999/9+99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3991 &:= 1 + ((1+1+1) \times (11^{1+1+1} - 1)) \\
&:= 22 + ((2^{2+2+2} - 2/2)^2) \\
&:= 3/3 + ((3 \times ((33/3)^3) - 3) \\
&:= 4 + (((4-444) + 4)/4) + ((4+4)^4) \\
&:= ((5-5/5) \times ((5-5/5)^5 - 5 \times 5)) - 5 \\
&:= 6/6 + ((6 \times 666) - 6) \\
&:= 7 + ((7 \times 7 - 7/7) \times (77 - 7/7 + 7)) \\
&:= 8 \times 8 \times 8 \times 8 - (((8/8+88) + 8) + 8) \\
&:= ((9 \times 9 \times 99 - 9/9)/(9+9)/9) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3992 &:= ((1+1+1) \times 11^{1+1+1}) - 1 \\
&:= 2 \times ((222 \times (2/2+2)^2) - 2) \\
&:= (3 \times ((33/3)^3) - 3/3) \\
&:= 4 + ((4 \times 4 \times (4^4 - 4)) - 44) \\
&:= 5^5 + ((5^5 - 5)/(5+5) + 555) \\
&:= (6+6)/6 + ((6 \times 666) - 6) \\
&:= 7 + (((7/7+77) \times ((7+7)/7+7 \times 7)) + 7) \\
&:= 8 \times 8 \times 8 \times 8 - (88+8+8) \\
&:= (9-9/9) \times ((9 \times 999 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3993 &:= (1+1+1) \times 11^{1+1+1} \\
&:= (2/2+2) \times (22/2)^{2/2+2} \\
&:= 3 \times ((33/3)^3) \\
&:= 4 + (((4+4)^4) - 444/4) + 4 \\
&:= 5^5 + (((5-5+5)/5)^5) + 5^5/5 \\
&:= (6 \times 666) - 6 \times 6/(6+6) \\
&:= 77/7 \times (((7 \times 7 \times 7 - 7/7) + 7) + 7) + 7) \\
&:= 8 + (8 \times 8 \times 8 \times 8 - 888/8) \\
&:= 99/9 \times (99 \times 99/(9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3994 &:= 1 + ((1+1+1) \times 11^{1+1+1}) \\
&:= (222 \times (2^{2+2} + 2)) - 2 \\
&:= 3/3 + (3 \times ((33/3)^3)) \\
&:= 4 + (((4-444)/4) + ((4+4)^4)) + 4 \\
&:= 55 \times 55 + ((5-5/5)^5 - 55) \\
&:= (6 \times 666) - (6+6)/6 \\
&:= (7 \times 7 \times (77+7)) - (777+77)/7 \\
&:= 8 + (((8-888)/8) + 8 \times 8 \times 8 \times 8) \\
&:= ((9+9)/9) \times ((999-9/9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3995 &:= 1 + (1 + ((1+1+1) \times 11^{1+1+1})) \\
&:= (222 \times (2^{2+2} + 2)) - 2/2 \\
&:= 3 + ((3 \times ((33/3)^3) - 3/3) \\
&:= ((4+4)^4) - (4444/44) \\
&:= (5 \times (5 \times (5 \times ((5+5)/5)^5)) - 5 \\
&:= (6 \times 666) - 6/6 \\
&:= 7 + ((7 \times 7 \times (77+7)) - ((7+7)/7)^7) \\
&:= 8 \times 8 \times 8 \times 8 - (8888/88) \\
&:= (999 \times ((9 \times 9 - 9)/(9+9))) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3996 &:= (1+1+1) \times (1+11^{1+1+1}) \\
&:= 222 \times (2^{2+2} + 2) \\
&:= 3 + (3 \times ((33/3)^3)) \\
&:= 444 \times (4/4 + 4 + 4) \\
&:= (5-5/5) \times ((5-5/5)^5 - 5 \times 5) \\
&:= 6 \times 666 \\
&:= 77 + (((77-7) \times (7 \times 7 + 7)) - 7/7) \\
&:= (8/8+8) \times 888/((8+8)/8) \\
&:= 999 \times ((9 \times 9 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3997 &:= (1+1+1) \times (1+11^{1+1+1}) + 1 \\
&:= 2/2 + (222 \times (2^{2+2} + 2)) \\
&:= 3 + ((3 \times ((33/3)^3) + 3/3) \\
&:= 4/4 + 444 \times (4/4 + 4 + 4) \\
&:= ((5+5)/5+5) \times ((5^5+5)/5-55) \\
&:= 6/6 + (6 \times 666) \\
&:= 77 + ((77-7) \times (7 \times 7 + 7)) \\
&:= 8 \times 8 \times 8 \times 8 - (88/8+88) \\
&:= ((9-9/9) \times ((9+9)/9)^9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3998 &:= (1+1+1) \times (1+11^{1+1+1}) + 1 + 1 \\
&:= 2 + (222 \times (2^{2+2} + 2)) \\
&:= 3 + (((3 \times (33/3)^3) - 3/3) + 3) \\
&:= (4+4)/4 + 444 \times (4/4 + 4 + 4) \\
&:= (5+5)/5 \times (((5+5)^{5-5/5}) - 5)/5 \\
&:= (6+6)/6 + (6 \times 666) \\
&:= 7/7 + (((77-7) \times (7 \times 7 + 7)) + 77) \\
&:= (8-88)/8 + (8 \times 8 \times 8 \times 8 - 88) \\
&:= 9/9 + (((9-9/9) \times (9+9)/9^9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 3999 &:= (1+1+1) \times (1+11^{1+1+1}) + 1 + 1 + 1 \\
&:= (((22-2)^{2/2+2}) - 2)/2 \\
&:= 3 + ((3 \times (33/3)^3) + 3) \\
&:= (4+4)^4 - (4-4/4)^4 - 4 \times 4 \\
&:= (5 \times (5 \times (5 \times ((5+5)/5)^5))) - 5/5 \\
&:= (6 \times 666) + (6 \times 6/(6+6)) \\
&:= ((7+7)/7)^7 + (7 \times ((7 \times 77 + 7) + 7)) \\
&:= 8 \times 8 \times 8 \times 8 - ((8/8 + 88) + 8) \\
&:= 9 + ((9/9 + 9 + 9) \times (999/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4000 &:= (1+1) \times ((1+1) \times (11-1)^{1+1+1}) \\
&:= ((22-2)^{2/2+2})/2 \\
&:= (3/3+3) \times ((3 \times 3 + 3/3)^3) \\
&:= 4 \times (4 \times (4^4 - 4) - (4+4)) \\
&:= 5 \times (5 \times (5 \times ((5+5)/5)^5)) \\
&:= 6 + ((6 \times 666) - ((6+6)/6)) \\
&:= (7/7 + 7 \times 7) \times ((7+7+7)/7 + 77) \\
&:= 8 \times 8 \times 8 \times 8 - (88+8) \\
&:= (9-9/9) \times ((9 \times 999 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4001 &:= 1 + ((1+1) \times ((1+1) \times (11-1)^{1+1+1})) \\
&:= ((22-2)^{2/2+2} + 2)/2 \\
&:= 3 \times ((33/3)^3 + 3) - 3/3 \\
&:= 4 \times 4 + ((4+4)^4 - 444/4) \\
&:= 5/5 + (5 \times (5 \times (5 \times ((5+5)/5)^5))) \\
&:= 6 + (6 \times 666 - 6/6) \\
&:= 77/7 + ((77-7) \times ((7/7 + 7 \times 7) + 7)) \\
&:= 8/8 + (8 \times 8 \times 8 \times 8 - (88+8)) \\
&:= ((9 \times 9 \times 99 + 9/9)/(9+9)/9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4002 &:= (1+1) \times (1 + ((1+1) \times (11-1)^{1+1+1})) \\
&:= 2 + (22-2)^{2/2+2}/2 \\
&:= 3 \times ((33/3)^3 + 3) \\
&:= 4 \times 4 + (((4-444)/4) + (4+4)^4) \\
&:= (5+5)/5 + (5 \times (5 \times (5 \times ((5+5)/5)^5))) \\
&:= 6 + 6 \times 666 \\
&:= (7-7/7) \times (((7+7)/7)^7 + 7 \times 77) \\
&:= (8+8)/8 + (8 \times 8 \times 8 \times 8 - (88+8)) \\
&:= 9 + ((99/9) \times (99 \times 99/(9+9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4003 &:= 11 + (((1+1+1) \times 11^{1+1+1}) - 1) \\
&:= 2 + ((22-2)^{2/2+2} + 2)/2 \\
&:= 3/3 + 3 \times ((33/3)^3 + 3) \\
&:= (4+4)^4 + ((4-(4+4)^4)/44) \\
&:= 5 + ((5+5)/5 \times (((5+5)^{5-5/5}) - 5)/5) \\
&:= 6 + (6 \times 666 + 6/6) \\
&:= 7777 - (7 \times 7 \times 77 + 7/7) \\
&:= 8 + (8 \times 8 \times 8 \times 8 - (8888/88)) \\
&:= (9 \times ((9 \times 9 \times 99 - 9)/(9+9))) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4004 &:= 11 + ((1+1+1) \times 11^{1+1+1}) \\
&:= 2 + ((22-2)^{2/2+2}/2 + 2) \\
&:= 33/3 + (3 \times (33/3)^3) \\
&:= 4 + (4 \times (4 \times (4^4 - 4) - (4+4))) \\
&:= 5 + ((5 \times (5 \times (5 \times ((5+5)/5)^5))) - 5/5) \\
&:= 6 + (6 \times 666 + ((6+6)/6)) \\
&:= 77 \times (((7+7+7)/7) + 7 \times 7) \\
&:= 8 + ((8/8 + 8) \times 888/(8+8)/8) \\
&:= 99/9 \times ((9 \times 9 \times 9 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4005 &:= 1 + (11 + ((1+1+1) \times 11^{1+1+1})) \\
&:= 2 + 2 + ((22-2)^{2/2+2} + 2)/2 \\
&:= 3 + 3 \times ((33/3)^3 + 3) \\
&:= (4/4 + 4 + 4) \times (444 + 4/4) \\
&:= 5 + (5 \times (5 \times (5 \times ((5+5)/5)^5))) \\
&:= 6 + (6 \times 666 + (6 \times 6/(6+6))) \\
&:= 7 \times 7 \times (77 + 7) - 777/7 \\
&:= 8 + (8 \times 8 \times 8 \times 8 - (88/8 + 88)) \\
&:= 9 \times ((9 \times 9 \times 99 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4006 &:= 1 + (1 + (11 + ((1+1+1) \times 11^{1+1+1}))) \\
&:= 2 \times ((2 \times 22 + 2/2)^2 - 22) \\
&:= 3 + (3 \times ((33/3)^3 + 3) + 3/3) \\
&:= 4^4 + (((4+4)/4 + 4) \times (4/4 + 4)^4) \\
&:= 5 + ((5 \times (5 \times (5 \times ((5+5)/5)^5))) + 5/5) \\
&:= ((66-6)/6) + 6 \times 666 \\
&:= ((7-777)/7) + 7 \times 7 \times (77 + 7) \\
&:= 8 \times 8 \times 8 \times 8 - ((8+8)/8 + 88) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4007 &:= 11 + (1+1+1) \times (1+11^{1+1+1}) \\
&:= 22/2 + (222 \times (2^{2+2} + 2)) \\
&:= 3 + ((3 \times (33/3)^3) + 33/3) \\
&:= (4+4)^4 - (((4-4/4)^4 + 4) + 4) \\
&:= 5 + ((5 \times (5 \times (5 \times ((5+5)/5)^5))) + ((5+5)/5)) \\
&:= 66/6 + 6 \times 666 \\
&:= (7 \times (7 \times (77 + 7) - (7+7))) - 77/7 \\
&:= 8 \times 8 \times 8 \times 8 - (8/8 + 88) \\
&:= (9+9)/9 + (9 \times ((9 \times 9 \times 99 - 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4008 &:= (1+11) \times (1 + (1+1+1) \times 111) \\
&:= 2 \times (2^{22/2} - 2 \times 22) \\
&:= 3 + (3 \times ((33/3)^3 + 3) + 3) \\
&:= (4+4)^4 - (44+44) \\
&:= 5 \times 5 \times 5 + (((5/5+5)^5)/((5+5)/5)) - 5) \\
&:= 6 + (6 \times 666 + 6) \\
&:= (7/7 + 7) \times (7 \times (77-7) + (77/7)) \\
&:= 8 \times 8 \times 8 \times 8 - 88 \\
&:= (9-9/9) \times (((9+9)/9)^9) - (99/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4009 &:= 1 + ((1+11) \times (1 + (1+1+1) \times 111)) \\
&:= 2/2 + (2 \times (2^{22/2} - 2 \times 22)) \\
&:= 3 + ((3 \times ((33/3)^3 + 3) + 3/3) + 3) \\
&:= 4/4 + ((4+4)^4 - (44+44)) \\
&:= (5 \times (5 - 5/5)^5) - 5555/5 \\
&:= 6 + ((6 \times 666 + 6/6) + 6) \\
&:= 7 + ((7-7/7) \times (((7+7)/7)^7 + 7 \times 77)) \\
&:= 8/8 + (8 \times 8 \times 8 \times 8 - 88) \\
&:= (9 \times 9 \times 99 - 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4010 &:= (11-1) \times (1 + ((1+1) \times (11-1))^{1+1}) \\
&:= 2 + (2 \times (2^{22/2} - 2 \times 22)) \\
&:= (3 \times (((33/3)^3 + 3) + 3)) - 3/3 \\
&:= (4+4)^4 + ((4+4)/4 - (44+44)) \\
&:= 5 + ((5 \times (5 \times (5 \times ((5+5)/5)^5))) + 5) \\
&:= 6 + ((6 \times 666 + ((6+6)/6)) + 6) \\
&:= 777 + (77 \times (7 \times 7 - 7) - 7/7) \\
&:= (8+8)/8 + (8 \times 8 \times 8 \times 8 - 88) \\
&:= (9 \times 9 \times 99 + 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4011 &:= 1 + ((11-1) \times (1 + ((1+1) \times (11-1))^{1+1})) \\
&:= ((22-2)^{2/2+2} + 22)/2 \\
&:= 3 \times (((33/3)^3 + 3) + 3) \\
&:= (4+4)^4 - ((4-4/4)^4 + 4) \\
&:= 55/5 + (5 \times (5 \times (5 \times ((5+5)/5)^5))) \\
&:= 6 + ((6 \times 666 + (6 \times 6/(6+6))) + 6) \\
&:= 777 + 77 \times (7 \times 7 - 7) \\
&:= 88/8 + (8 \times 8 \times 8 \times 8 - (88+8)) \\
&:= 9/9 + ((9 \times 9 \times 99 + 9/9)/(9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4012 &:= 1 + (1 + ((11-1) \times (1 + ((1+1) \times (11-1))^{1+1}))) \\
&:= 2 \times ((2^{22/2} - 2 \times 22) + 2) \\
&:= 3/3 + (3 \times (((33/3)^3 + 3) + 3)) \\
&:= (4 \times (4 \times (4^4 - 4) - 4) - 4) \\
&:= (5+5)/5 \times (((5+5)^{5-5/5}) + 5)/5 + 5) \\
&:= 6 + (((66-6)/6) + 6 \times 666) \\
&:= 7 + (7 \times 7 \times (77 + 7) - 777/7) \\
&:= 8 \times 8 \times 8 \times 8 + ((8/((8+8)/8)) - 88) \\
&:= (9 \times ((9 \times 9 \times 99 + 9)/(9+9))) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4013 &:= 11 + ((1+1) \times (1 + ((1+1) \times (11-1)^{1+1+1}))) \\
&:= 2 + (((22-2)^{2/2+2} + 22)/2) \\
&:= 33/3 + 3 \times ((33/3)^3 + 3) \\
&:= 44 + (((4^4 - 4)/4)^{(4+4)/4}) \\
&:= 5 \times 5 \times 5 + ((5/5 + 5)^5 / ((5+5)/5)) \\
&:= 6 + (6 \times 666 + (66/6)) \\
&:= 7 + (((7-777)/7) + 7 \times 7 \times (77+7)) \\
&:= 8 \times (8 \times 8 \times 8 - 8) - (88/8 + 8) \\
&:= (9 \times ((9 \times 9 \times 99 + 9)/(9+9))) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4014 &:= (1+1) \times ((11-1-1) \times (1 + (1+1) \times 111)) \\
&:= (2/2 + 2)^2 \times (2 \times 222 + 2) \\
&:= 3 + (3 \times (((33/3)^3 + 3) + 3)) \\
&:= (4+4)^4 - ((4-4/4)^4 + 4/4) \\
&:= 5^5 + (((5^5 - 55)/5) + 5 \times 55) \\
&:= 6 + ((6 \times 666 + 6) + 6) \\
&:= 7 + ((7 \times (7 \times (77+7) - (7+7))) - (77/7)) \\
&:= 8 + (8 \times 8 \times 8 \times 8 - ((8+8)/8 + 88)) \\
&:= 9 \times ((9 \times 9 \times 99 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4015 &:= 11 \times (1 + (1 + (11 \times (11 \times (1+1+1)))))) \\
&:= 2^{2 \times (2+2+2)} - (2/2 + 2)^{2+2} \\
&:= (3/3 + 3)^{3+3} - 3 \times 3^3 \\
&:= (4+4)^4 - (4-4/4)^4 \\
&:= 55 \times ((5 \times (5+5+5)) - ((5+5)/5)) \\
&:= 6 + (((6 \times 666 + 6/6) + 6) + 6) \\
&:= 7 + ((7/7 + 7) \times (7 \times (77-7) + (77/7))) \\
&:= 8 + (8 \times 8 \times 8 \times 8 - (8/8 + 88)) \\
&:= ((9-9/9) \times ((9+9)/9)^9) - 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4016 &:= 1 + (11 \times (1 + (1 + (11 \times (11 \times (1+1+1)))))) \\
&:= 2 \times (2^{22/2} + (2 \times (2-22))) \\
&:= 3 + (3 \times ((33/3)^3 + 3) + 33/3) \\
&:= 4 \times (4 \times (4^4 - 4) - 4) \\
&:= (5-5/5) \times (((5-5/5)^5 - 5 \times 5) + 5) \\
&:= 6 + (((6 \times 666 + ((6+6)/6)) + 6) + 6) \\
&:= (7 \times (7 \times (77+7) - (7+7))) - (7+7)/7 \\
&:= 8 + (8 \times 8 \times 8 \times 8 - 88) \\
&:= (9-9/9) \times (((9+9)/9)^9) - (9/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4017 &:= 1 + (1 + (11 \times (1 + (1 + (11 \times (11 \times (1+1+1))))))) \\
&:= 2 + (2^{2 \times (2+2+2)} - (2/2 + 2)^{2+2}) \\
&:= 3^3 + ((3 \times (33/3)^3) - 3) \\
&:= 4/4 + (4 \times (4 \times (4^4 - 4) - 4)) \\
&:= 5 + 5 \times 5 \times 5 \times ((5+5)/5)^5 + (55+5)/5 \\
&:= 6 \times 666 + ((6 \times 6 + 6)/((6+6)/6)) \\
&:= (7 \times (7 \times (77+7) - (7+7))) - 7/7 \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - 88) + 8/8) \\
&:= 9 + ((9-9/9) \times (((9+9)/9)^9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4018 &:= 11 + 11 + (1+1+1) \times (1 + 11^{1+1+1}) \\
&:= 22 + (222 \times (2^{2+2} + 2)) \\
&:= 3 + ((3/3 + 3)^{3+3} - 3 \times 3^3) \\
&:= (4+4)/4 + (4 \times (4 \times (4^4 - 4) - 4)) \\
&:= 5 + (((5/5 + 5)^5 / ((5+5)/5)) + 5 \times 5 \times 5) \\
&:= 6 \times 666 + ((66+66)/6) \\
&:= 7 \times (7 \times (77+7) - (7+7)) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - 88) + ((8+8)/8)) \\
&:= 9 + ((9 \times 9 \times 99 - 9/9) / ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4019 &:= 11 + ((1+11) \times (1 + (1+1+1) \times 111)) \\
&:= (((22-2) \times ((22-2)^2 + 2)) - 2)/2 \\
&:= 3^3 + ((3 \times (33/3)^3) - 3/3) \\
&:= 4 + ((4+4)^4 - (4-4/4)^4) \\
&:= 5^5 + (((5^5 - 5)/5 - 5) + 5 \times 55) \\
&:= 6 + ((6 \times 666 + (66/6)) + 6) \\
&:= 7/7 + (7 \times (7 \times (77+7) - (7+7))) \\
&:= 88/8 + (8 \times 8 \times 8 \times 8 - 88) \\
&:= 9 + ((9 \times 9 \times 99 + 9/9) / ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4020 &:= (1+11) \times (1 + (1 + (1+1+1) \times 111)) \\
&:= (22-2) \times (((22-2)^2 + 2)/2) \\
&:= 3 \times ((33/3)^3 + 3 \times 3) \\
&:= 4 + (4 \times (4 \times (4^4 - 4) - 4)) \\
&:= 5^5 + ((5 \times 55 - 5) + 5^5/5) \\
&:= (66-6) \times (66+6/6) \\
&:= (7+7)/7 + (7 \times (7 \times (77+7) - (7+7))) \\
&:= 8 \times (8 \times 8 \times 8 - 8) - (88+8)/8 \\
&:= (99+9)/9 \times ((9+9) \times (9+9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4021 &:= 1 + ((1+11) \times (1 + (1 + (1+1+1) \times 111))) \\
&:= 22 + (((22-2)^{2/2+2} - 2)/2) \\
&:= 3^3 + ((3 \times (33/3)^3) + 3/3) \\
&:= (4+4)^4 - (44+4^4)/4 \\
&:= 5^5 + (((5^5 + 5)/5 - 5) + 5 \times 55) \\
&:= 6 \times (666 + 6) - 66/6 \\
&:= ((77+7) \times (7 \times 7 - 7/7)) - 77/7 \\
&:= 8 \times (8 \times 8 \times 8 - 8) - 88/8 \\
&:= 9 + ((9 \times ((9 \times 9 \times 99 + 9)/(9+9))) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4022 &:= (1+1) \times (11 + ((1+1) \times (11-1)^{1+1+1})) \\
&:= 22 + (22-2)^{2/2+2}/2 \\
&:= 3 + (((3 \times (33/3)^3) - 3/3) + 3^3) \\
&:= (4+4)^4 + ((4 - (44+4^4))/4) \\
&:= 5^5 + (((5^5 + 5 + 5)/5 - 5) + 5 \times 55) \\
&:= (6-66)/6 + 6 \times (666+6) \\
&:= 77/7 + (77 \times (7 \times 7 - 7) + 777) \\
&:= (8-88)/8 + 8 \times (8 \times 8 \times 8 - 8) \\
&:= 9 + ((9 \times ((9 \times 9 \times 99 + 9)/(9+9))) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4023 &:= (1+1+1) \times (11 + (11^{1+1+1} - 1)) \\
&:= 22 + (((22-2)^{2/2+2} + 2)/2) \\
&:= 3 + ((3 \times (33/3)^3) + 3^3) \\
&:= 4 + (((4+4)^4 - (4-4/4)^4) + 4) \\
&:= 5^5 + (((5^5 - 5 - 5)/5 + 5 \times 55) \\
&:= 6 \times 666 + ((66 \times 6 / (6+6)) - 6) \\
&:= 7 + ((7 \times (7 \times (77+7) - (7+7))) - ((7+7)/7)) \\
&:= 8 \times (8 \times 8 \times 8 - 8) - (8/8 + 8) \\
&:= 9 + (9 \times ((9 \times 9 \times 99 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4024 &:= 1 + ((1+1+1) \times (11 + (11^{1+1+1} - 1))) \\
&:= 2 \times (2^{22/2} - (2+2+2)^2) \\
&:= (3 \times (3-3^3)) + (3/3 + 3)^{3+3} \\
&:= (4 \times 4 \times (4^4 - 4)) - 4 - 4 \\
&:= 5^5 + (((5^5 - 5)/5 + 5 \times 55) \\
&:= (((6+6)/6)^{6+6}) - (66+6) \\
&:= 7 + ((7 \times (7 \times (77+7) - (7+7))) - 7/7) \\
&:= 8 \times (8 \times 8 \times 8 - 8) - 8 \\
&:= (9-9/9) \times (((9+9)/9)^9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4025 &:= (11 \times ((1+1+1) \times (1 + 11^{1+1+1}))) - 1 \\
&:= 2 + (((22-2)^{2/2+2} + 2)/2) + 22 \\
&:= 33 + ((3 \times (33/3)^3) - 3/3) \\
&:= 4 + ((4+4)^4 - (44+4^4)/4) \\
&:= 5 \times ((5 \times (5 \times ((5+5)/5)^5) + 5) \\
&:= 6 \times (666 + 6) - 6/6 - 6 \\
&:= 7 + (7 \times (7 \times (77+7) - (7+7))) \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 - 8) - 8) \\
&:= 9/9 + ((9-9/9) \times (((9+9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4026 &:= 11 \times ((1+1+1) \times (1 + 11^{1+1+1})) \\
&:= 2 + (2 \times (2^{22/2} - (2+2+2)^2)) \\
&:= 33 + (3 \times (33/3)^3) \\
&:= (4+4)^4 - (((4^4 + 4 + 4)/4) + 4) \\
&:= 5^5 + ((5^5 + 5)/5 + 5 \times 55) \\
&:= 6 \times (666 + 6) - 6 \\
&:= 7 + ((7 \times (7 \times (77+7) - (7+7))) + 7/7) \\
&:= (8+8)/8 + (8 \times (8 \times 8 \times 8 - 8) - 8) \\
&:= (9+9)/9 + ((9-9/9) \times (((9+9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4027 &:= 1 + (11 \times ((1+1+1) \times (1 + 11^{1+1+1}))) \\
&:= (((2 \times 2 \times 22 + 2)^2) - 2)/2 - 22 \\
&:= 3/3 + ((3 \times (33/3)^3) + 33) \\
&:= (4+4)^4 - ((4^4 + 4)/4 + 4) \\
&:= 5^5 + (((5^5 + 5 + 5)/5 + 5 \times 55) \\
&:= 6/6 + (6 \times (666 + 6) - 6) \\
&:= 7 + ((7 \times (7 \times (77+7) - (7+7))) + ((7+7)/7)) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - 88) + (88/8)) \\
&:= 9 \times (9+9) \times (9+9) + 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4028 &:= 1 + (1 + (11 \times ((1 + 1 + 1) \times (1 + 11^{1+1})))) \\
&:= (2 \times (2 \times 22 + 2/2)^2) - 22 \\
&:= 3 + (((3 \times (33/3)^3) - 3/3) + 33) \\
&:= (4 \times 4 \times (4^4 - 4)) - 4 \\
&:= (5 + 5)/5 \times (5^5 - 5555/5) \\
&:= (6 + 6)/6 + (6 \times (666 + 6) - 6) \\
&:= (7/7 - 77) \times (7 - (77/7 + 7 \times 7)) \\
&:= 8 \times (8 \times 8 \times 8 - 8) - (8/((8 + 8)/8)) \\
&:= 9 + (((9 \times 9 \times 99 + 9/9)/(9 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4029 &:= (1 + 1 + 1) \times (1 + (11 + 11^{1+1+1})) \\
&:= (((2 \times 2 \times 22 + 2)^2) + 2)/2 - 22 \\
&:= 3 + ((3 \times (33/3)^3) + 33) \\
&:= 4/4 + ((4 \times 4 \times (4^4 - 4)) - 4) \\
&:= 5 + (((5^5 - 5)/5 + 5 \times 55) + 5^5) \\
&:= 6 \times 666 + (66 \times 6/(6 + 6)) \\
&:= 77/7 + (7 \times (7 \times (77 + 7) - (7 + 7))) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) - (88/8)) \\
&:= 9 + ((99 + 9)/9 \times ((9 + 9) \times (9 + 9) + (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4030 &:= (1 + 1) \times ((1 + 1)^{11} - (11 \times (1 + 1 + 1))) \\
&:= (2 \times (2^{22/2} - 22)) - 22 \\
&:= (3/3 + 3)^{3+3} - (33 + 33) \\
&:= (4 + 4)^4 - ((4^4 + 4 + 4)/4) \\
&:= 5 + ((5^5/5 + 5 \times 55) + 5^5) \\
&:= (((6 + 6)/6)^{6+6}) - 66 \\
&:= ((77 + 7) \times (7 \times 7 - 7/7)) - (7 + 7)/7 \\
&:= 8 \times (8 \times 8 \times 8 - 8) - (8 + 8)/8 \\
&:= (9/9 + 9) \times (((9 + 9) \times (9 + 9) - ((9 + 9)/9)) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4031 &:= ((1 + 1 + 1) \times ((1 + 11) \times (1 + 111))) - 1 \\
&:= ((2^{2+2} + 2) \times (222 + 2)) - 2/2 \\
&:= (3 \times 3 + 3) \times (333 + 3) - 3/3 \\
&:= (4 + 4)^4 - (4^4 + 4)/4 \\
&:= 5 + (((5^5 + 5)/5 + 5 \times 55) + 5^5) \\
&:= 6 \times (666 + 6) - 6/6 \\
&:= ((77 + 7) \times (7 \times 7 - 7/7)) - 7/7 \\
&:= 8 \times (8 \times 8 \times 8 - 8) - 8/8 \\
&:= ((9 + 9 + 9) \times (9 \times (9 + 9) - 9)) - (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4032 &:= (1 + 1 + 1) \times ((1 + 11) \times (1 + 111)) \\
&:= (2^{2+2} + 2) \times (222 + 2) \\
&:= (3 \times 3 + 3) \times (333 + 3) \\
&:= 4 \times 4 \times (4^4 - 4) \\
&:= ((5 + 5)/5)^5 \times (5 \times 5 \times 5 + 5/5) \\
&:= 6 \times (666 + 6) \\
&:= (77 + 7) \times (7 \times 7 - 7/7) \\
&:= 8 \times (8 \times 8 \times 8 - 8) \\
&:= (9 \times 9 - 9) \times ((999 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4033 &:= (((111 - 1)^{1+1}) - 1)/(1 + 1 + 1) \\
&:= 2/2 + ((2^{2+2} + 2) \times (222 + 2)) \\
&:= 3/3 + (3 \times 3 + 3) \times (333 + 3) \\
&:= 4/4 + (4 \times 4 \times (4^4 - 4)) \\
&:= 5 + ((5 + 5)/5 \times (5^5 - 5555/5)) \\
&:= 6/6 + 6 \times (666 + 6) \\
&:= 7/7 + ((77 + 7) \times (7 \times 7 - 7/7)) \\
&:= 8/8 + 8 \times (8 \times 8 \times 8 - 8) \\
&:= 9 + ((9 - 9/9) \times (((9 + 9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4034 &:= 1 + (((111 - 1)^{1+1}) - 1)/(1 + 1 + 1) \\
&:= 2 + ((2^{2+2} + 2) \times (222 + 2)) \\
&:= 3 + ((3 \times 3 + 3) \times (333 + 3) - 3/3) \\
&:= (4 + 4)^4 + (((4 - 4^4) + 4)/4) \\
&:= 5 + (((5^5 - 5)/5 + 5 \times 55) + 5^5) + 5 \\
&:= (6 + 6)/6 + 6 \times (666 + 6) \\
&:= (7 + 7)/7 + ((77 + 7) \times (7 \times 7 - 7/7)) \\
&:= (8 + 8)/8 + 8 \times (8 \times 8 \times 8 - 8) \\
&:= 9 + (((9 - 9/9) \times (((9 + 9)/9)^9) - 9)) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4035 &:= (1 + 1 + 1) \times (1 + ((1 + 11) \times (1 + 111))) \\
&:= 2 + (((2^{2+2} + 2) \times (222 + 2)) + 2/2) \\
&:= 3 + (3 \times 3 + 3) \times (333 + 3) \\
&:= 4 + ((4 + 4)^4 - (4^4 + 4)/4) \\
&:= (5 + 5 + 5) \times (5 \times 55 - (5/5 + 5)) \\
&:= (6 \times 6/(6 + 6)) + 6 \times (666 + 6) \\
&:= 7 + ((7/7 - 77) \times (7 - (77/7 + 7 \times 7))) \\
&:= 88/8 + (8 \times (8 \times 8 \times 8 - 8) - 8) \\
&:= 99/9 + ((9 - 9/9) \times (((9 + 9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4036 &:= 1 + ((1 + 1 + 1) \times (1 + ((1 + 11) \times (1 + 111)))) \\
&:= 22^2 + (2^{2+2} \times 222) \\
&:= (3/3 + 3)^{3+3} - (3^3 + 33) \\
&:= 4 + (4 \times 4 \times (4^4 - 4)) \\
&:= (5 - 5/5)^{5/5+5} - (55 + 5) \\
&:= 6 + (((6 + 6)/6)^{6+6}) - 66 \\
&:= 7 + ((7 \times (7 \times (77 + 7) - (7 + 7))) + (77/7)) \\
&:= (8/((8 + 8)/8)) + 8 \times (8 \times 8 \times 8 - 8) \\
&:= 9 + (9 \times (9 + 9) \times (9 + 9) + 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4037 &:= 11 \times (1 + ((1 + 1 + 1) \times (1 + 11^{1+1}))) \\
&:= (((2 \times 2 \times 22 + 2)^2) - 22)/2 - 2 \\
&:= 33 + ((3 \times (33/3)^3) + 33/3) \\
&:= 4 + ((4 \times 4 \times (4^4 - 4)) + 4/4) \\
&:= 5 + (((5 + 5)/5)^5 \times (5 \times 5 \times 5 + 5/5)) \\
&:= 6 + (6 \times (666 + 6) - 6/6) \\
&:= 7 \times 7 \times (77 + 7) - ((7 + 7)/7 + 77) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 8) - (88/8)) + 8) \\
&:= 9 + (((9 \times 9 \times 99 + 9/9)/(9 + 9)/9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4038 &:= 1 + (11 \times (1 + ((1 + 1 + 1) \times (1 + 11^{1+1})))) \\
&:= 2 + ((2^{2+2} \times 222) + 22^2) \\
&:= 3 + ((3 \times 3 + 3) \times (333 + 3) + 3) \\
&:= 4 + (((4 - 4^4) + 4)/4) + (4 + 4)^4 \\
&:= 5^5 + ((5 - 5/5)^5 - 5555/5) \\
&:= 6 + 6 \times (666 + 6) \\
&:= 7 \times 7 \times (77 + 7) - 7/7 - 77 \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) - ((8 + 8)/8)) \\
&:= 9 \times (9 + 9) \times (9 + 9) + ((9999 + 99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4039 &:= ((1 + 1)^{1+1+1}) - (1 + (1 + 111)/(1 + 1)) \\
&:= (((2 \times 2 \times 22 + 2)^2) - 22)/2 \\
&:= 3 + ((3/3 + 3)^{3+3} - (3^3 + 33)) \\
&:= 4 + (((4 + 4)^4 - (4^4 + 4)/4) + 4) \\
&:= 5^5 + ((5 - 5/5)^5 - (55 + 55)) \\
&:= 6 + (6 \times (666 + 6) + 6/6) \\
&:= 7 \times 7 \times (77 + 7) - 77 \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) - 8/8) \\
&:= (9 \times (9 \times ((9 \times 99 + 9)/(9 + 9)))) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4040 &:= ((1 + 1)^{1+1+1}) - (1 + 111)/(1 + 1) \\
&:= 2 \times (2 \times ((2 \times (22^2 + 22)) - 2)) \\
&:= (3/3 + 3) \times (3 \times 333 + 33/3) \\
&:= 4 + ((4 \times 4 \times (4^4 - 4)) + 4) \\
&:= ((5 + 5 + 5) \times (5 \times 55 - 5)) - 5 - 5 \\
&:= 6 + (6 \times (666 + 6) + ((6 + 6)/6)) \\
&:= 7/7 + (7 \times 7 \times (77 + 7) - 77) \\
&:= 8 + 8 \times (8 \times 8 \times 8 - 8) \\
&:= (9/9 + 9) \times (((9 + 9)/9)^9) - (99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4041 &:= ((1 + 1)^{1+1+1}) - (111 - 1)/(1 + 1) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) - 22)/2 \\
&:= ((3 + 3) \times 3^{3+3}) - 333 \\
&:= (4 + 4)^4 - 44/4 - 44 \\
&:= (5 - 5/5)^{5/5+5} - 55 \\
&:= 6 + (6 \times (666 + 6) + (6 \times 6/(6 + 6))) \\
&:= (7 + 7)/7 + (7 \times 7 \times (77 + 7) - 77) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) + 8/8) \\
&:= 9 \times (((9 + 9)/9)^9) - 9 \times 9 + 9 + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4042 &:= 1 + (((1 + 1)^{1+1+1}) - (111 - 1)/(1 + 1)) \\
&:= 2 \times ((2 \times 22 + 2/2)^2 - (2 + 2)) \\
&:= (3/3 + 3)^{3+3} - (3^3 + 3^3) \\
&:= (4 + 4)^4 + ((4 - 44)/4 - 44) \\
&:= 5/5 + ((5 - 5/5)^{5/5+5} - 55) \\
&:= 6 + (((6 + 6)/6)^{6+6}) - 66 + 6 \\
&:= 7 \times 7 \times 77 + ((7 \times 7 \times 77 - 7)/(7 + 7)) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) + ((8 + 8)/8)) \\
&:= 9 + (((9 - 9/9) \times (((9 + 9)/9)^9) - 9)) + 9
\end{aligned}$$

- ▶ 4043 := $11 + ((1 + 1 + 1) \times ((1 + 11) \times (1 + 111)))$
:= $2 + (((2 \times 2 \times 22 + 2)^2) - 22)/2 + 2$
:= $33/3 + (3 \times 3 + 3) \times (333 + 3)$
:= $44/4 + (4 \times 4 \times (4^4 - 4))$
:= $((5 + 5)/5 + 5) \times (5 - 5/5)^5 - 5^5$
:= $66/6 + 6 \times (666 + 6)$
:= $77/7 + ((77 + 7) \times (7 \times 7 - 7/7))$
:= $88/8 + 8 \times (8 \times 8 \times 8 - 8)$
:= $9 + (((9 - 9/9) \times (((9 + 9)/9)^9) - 9) + 9/9) + 9$
- ▶ 4044 := $(1 + 11) \times (1 + ((1 + 1 + 1) \times (1 + 111)))$
:= $2 \times (2^{22/2} - 22 + 2 + 2)$
:= $3 + (((3 + 3) \times 3^{3+3}) - 333)$
:= $(4 + 4)^4 - (44 + 4 + 4)$
:= $55 \times 55 + ((5 - 5/5)^5 - 5)$
:= $6 + (6 \times (666 + 6) + 6)$
:= $(77 + 7)/7 \times ((7 \times 7 \times 7 - 7) + 7/7)$
:= $((88 + 8)/8) + 8 \times (8 \times 8 \times 8 - 8)$
:= $9 + (((9 - 9/9) \times (((9 + 9)/9)^9) - 9) + (99/9))$
- ▶ 4045 := $1 + ((1 + 11) \times (1 + ((1 + 1 + 1) \times (1 + 111))))$
:= $(2 \times ((2 \times 22 + 2/2)^2 - 2)) - 2/2$
:= $3 + ((3/3 + 3)^{3+3} - (3^3 + 3^3))$
:= $4 + ((4 + 4)^4 - (44/4 + 44))$
:= $((5 + 5 + 5) \times (5 \times 55 - 5)) - 5$
:= $6 + ((6 \times (666 + 6) + 6/6) + 6)$
:= $7 + (7 \times 7 \times (77 + 7) - (7/7 + 77))$
:= $8 \times (8 \times 8 \times 8 - 8) + (88 + 8 + 8)/8$
:= $((9 \times 9 + 9)/(9 + 9)) \times (9 \times (9 \times 9 + 9) - 9/9)$
- ▶ 4046 := $(1 + 1) \times ((1 + 1)^{11} - (1 + ((1 + 1) \times (1 + 11))))$
:= $2 \times ((2 \times 22 + 2/2)^2 - 2)$
:= $(3 \times ((33/3)^3 + (3 \times (3 + 3)))) - 3/3$
:= $(4 + 4)^4 - (((4 + 4)/4 + 44) + 4)$
:= $5 + ((5 - 5/5)^{5/5+5} - 55)$
:= $6 + ((6 \times (666 + 6) + ((6 + 6)/6)) + 6)$
:= $7 + (7 \times 7 \times (77 + 7) - 77)$
:= $8 + ((8 \times (8 \times 8 \times 8 - 8) - ((8 + 8)/8)) + 8)$
:= $((9 \times (9 \times 99 + 9) - 9) + 9/9)/(9 + 9)$
- ▶ 4047 := $((1 + 1) \times ((1 + 1)^{11} - ((1 + 1) \times (1 + 11)))) - 1$
:= $((2 \times 2 \times 22 + 2)^2 - 2)/2 - 2$
:= $3 \times ((33/3)^3 + (3 \times (3 + 3)))$
:= $(4 + 4)^4 - ((44 + 4/4) + 4)$
:= $5 + (((5 - 5/5)^{5/5+5} - 55) + 5/5)$
:= $6 + ((6 \times (666 + 6) + (6 \times 6/(6 + 6))) + 6)$
:= $((7/7 + 7)^{7/7-7}) - 7 \times 7$
:= $8 + ((8 \times (8 \times 8 \times 8 - 8) - 8/8) + 8)$
:= $(9/9 + 9 + 9) \times ((9 + 9) \times (9 + 9) - 999/9)$
- ▶ 4048 := $(1 + 1) \times ((1 + 1)^{11} - ((1 + 1) \times (1 + 11)))$
:= $2 \times (2 \times (2 \times (22^2 + 22)))$
:= $3/3 + (3 \times ((33/3)^3 + (3 \times (3 + 3))))$
:= $4 \times (4 \times (4^4 - 4) + 4)$
:= $55/5 \times ((5^5 + 5)/(5 + 5) + 55)$
:= $((6 + 6)/6)^{6+6} - (6 \times 6 + 6 + 6)$
:= $((7 + 7)/7)^7 + ((77 - 7) \times (7 \times 7 + 7))$
:= $8 + (8 \times (8 \times 8 \times 8 - 8) + 8)$
:= $(9 \times (9 \times ((9 \times 99 + 9)/(9 + 9)))) - (9 + 9)/9$
- ▶ 4049 := $1 + ((1 + 1) \times ((1 + 1)^{11} - ((1 + 1) \times (1 + 11))))$
:= $((2 \times 2 \times 22 + 2)^2 - 2)/2$
:= $(3 \times ((3 + 3) \times ((3 + 3)^3 + 3 \times 3))) - 3/3$
:= $4/4 + (4 \times (4 \times (4^4 - 4) + 4))$
:= $55 \times 55 + (5 - 5/5)^5$
:= $6 + (6 \times (666 + 6) + (66/6))$
:= $(7 \times (7 \times (77 + 7) - 7)) - (77/7 + 7)$
:= $8 + ((8 \times (8 \times 8 \times 8 - 8) + 8/8) + 8)$
:= $(9 \times (9 \times ((9 \times 99 + 9)/(9 + 9)))) - 9/9$
- ▶ 4050 := $(1 + 1) \times ((1 + 1)^{11} - (1 + (11 + 11)))$
:= $2 \times (2 \times 22 + 2/2)^2$
:= $3 \times ((3 + 3) \times ((3 + 3)^3 + 3 \times 3))$
:= $(4 + 4)^4 - ((4 + 4)/4 + 44)$
:= $(5 + 5 + 5) \times (5 \times 55 - 5)$
:= $6 + ((6 \times (666 + 6) + 6) + 6)$
:= $77/7 + (7 \times 7 \times (77 + 7) - 77)$
:= $8 + ((8 \times (8 \times 8 \times 8 - 8) + ((8 + 8)/8)) + 8)$
:= $9 \times (9 \times ((9 \times 99 + 9)/(9 + 9)))$
- ▶ 4051 := $((1 + 1) \times ((1 + 1)^{11} - (11 + 11))) - 1$
:= $((2 \times 2 \times 22 + 2)^2 + 2)/2$
:= $3/3 + (3 \times ((3 + 3) \times ((3 + 3)^3 + 3 \times 3)))$
:= $(4 + 4)^4 - (44 + 4/4)$
:= $5/5 + ((5 + 5 + 5) \times (5 \times 55 - 5))$
:= $66 + (6 \times 666 - (66/6))$
:= $7 + ((77 + 7)/7 \times ((7 \times 7 \times 7 - 7) + 7/7))$
:= $8 + (8 \times (8 \times 8 \times 8 - 8) + (88/8))$
:= $9/9 + (9 \times (9 \times ((9 \times 99 + 9)/(9 + 9))))$
- ▶ 4052 := $(1 + 1) \times ((1 + 1)^{11} - (11 + 11))$
:= $2 \times (2^{22/2} - 22)$
:= $(3/3 + 3)^{3+3} - (33/3 + 33)$
:= $(4 + 4)^4 - 44$
:= $(5 + 5)/5 + ((5 + 5 + 5) \times (5 \times 55 - 5))$
:= $66 + (((6 - 66)/6) + 6 \times 666)$
:= $(7 \times (7 \times (77 + 7) - 7)) - (7/7 + 7 + 7)$
:= $8 \times 8 \times 8 \times 8 - (88/((8 + 8)/8))$
:= $(9 + 9)/9 + (9 \times (9 \times ((9 \times 99 + 9)/(9 + 9))))$
- ▶ 4053 := $1 + ((1 + 1) \times ((1 + 1)^{11} - (11 + 11)))$
:= $2 + (((2 \times 2 \times 22 + 2)^2) + 2)/2$
:= $3 + (3 \times ((3 + 3) \times ((3 + 3)^3 + 3 \times 3)))$
:= $4/4 + ((4 + 4)^4 - 44)$
:= $5 + ((55 \times 55 - 5/5) + (5 - 5/5)^5)$
:= $((6 + 6)/6)^{6+6} - ((6 \times 6 + 6/6) + 6)$
:= $(7 \times (7 \times (77 + 7) - 7)) - (7 + 7)$
:= $8 + (8 \times (8 \times 8 \times 8 - 8) + (88 + 8 + 8)/8)$
:= $9 \times 9 \times 9 + ((9999)/((9 + 9 + 9)/9) - 9)$
- ▶ 4054 := $(1 + 1) \times (1 + ((1 + 1)^{11} - (11 + 11)))$
:= $2 + (2 \times (2^{22/2} - 22))$
:= $(3/3 + 3)^{3+3} - (3 \times 3 + 33)$
:= $(4 + 4)^4 + ((4 + 4)/4 - 44)$
:= $5 + (55 \times 55 + (5 - 5/5)^5)$
:= $((6 + 6)/6)^{6+6} - (6 \times 6 + 6)$
:= $7 + (((7/7 + 7)^{7/7-7}) - 7 \times 7)$
:= $8 \times (8 \times 8 \times 8 - 8) + (88 + 88)/8$
:= $((9 \times (9 \times 99 + 9) - 9/9) + 9)/(9 + 9)$
- ▶ 4055 := $1 + ((1 + 1) \times (1 + ((1 + 1)^{11} - (11 + 11))))$
:= $2 + (((2 \times 2 \times 22 + 2)^2) + 2)/2 + 2$
:= $3 + ((3/3 + 3)^{3+3} - (33/3 + 33))$
:= $4 + (4 + 4)^4 - (44 + 4/4)$
:= $5 + ((5 + 5 + 5) \times (5 \times 55 - 5))$
:= $66 + (6 \times 666 - (6/6 + 6))$
:= $(7 \times (7 \times (77 + 7) - 7)) - (77 + 7)/7$
:= $8 + (((8 \times (8 \times 8 \times 8 - 8) - 8/8) + 8) + 8)$
:= $((9 \times 9 + 9)/(9 + 9)) \times (9 \times (9 \times 9 + 9) + 9/9)$
- ▶ 4056 := $(1 + 1) \times ((1 + 11) \times (1 + 1 + 11)^{1+1})$
:= $2 \times ((2^{22/2} - 22) + 2)$
:= $3 \times (((33/3)^3 + (3 \times (3 + 3)))) + 3$
:= $4 + ((4 + 4)^4 - 44)$
:= $(5 - 5/5) \times ((5 - 5/5)^5 - (5 + 5))$
:= $66 + (6 \times 666 - 6)$
:= $(7 \times (7 \times (77 + 7) - 7)) - 77/7$
:= $8 + ((8 \times (8 \times 8 \times 8 - 8) + 8) + 8)$
:= $(9 - 9/9) \times (((9 - 99)/(9 + 9)) + ((9 + 9)/9)^9)$
- ▶ 4057 := $1 + ((1 + 1) \times ((1 + 11) \times (1 + 1 + 11)^{1+1}))$
:= $2/2 + (2 \times (2^{22/2} - 22) + 2)$
:= $((3/3 + 3)^3) + (3 \times (33/3)^3)$
:= $4 + (((4 + 4)^4 - 44) + 4/4)$
:= $5 + (((5 + 5 + 5) \times (5 \times 55 - 5)) + ((5 + 5)/5))$
:= $66 + ((6 \times 666 - 6) + 6/6)$
:= $((7 - 77)/7) + (7 \times (7 \times (77 + 7) - 7))$
:= $88 + ((8 \times 8 - 8/8)^{(8+8)/8})$
:= $(99 \times ((9 \times 9 \times 9 + 9)/(9 + 9))) - (9 + 9)/9$

$$\begin{aligned}
\blacktriangleright 4058 &:= (1+1) \times (1 + ((1+11) \times (1+1+11)^{1+1})) \\
&:= 2 + (2 \times ((2^{22/2} - 22) + 2)) \\
&:= 3^{3+3} + (3333 - (3/3 + 3)) \\
&:= 4 + (((4+4)/4 - 44) + (4+4)^4) \\
&:= 5^5 + (((5^5 + 5)/(5+5) - 5) + 5^5/5) \\
&:= 66 + ((6 \times 666 - 6) + ((6+6)/6)) \\
&:= (7 \times (7 \times (77 + 7) - 7)) - ((7+7)/7 + 7) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 - 8) + ((8+8)/8)) + 8) + 8) \\
&:= (99 \times ((9 \times 9 \times 9 + 9)/(9+9))) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4059 &:= 11 \times ((1+1+1) \times (1 + (1+11)^{1+1})) \\
&:= ((22/2)^2 + 2) \times (22/2 + 22) \\
&:= 33 \times ((3 \times (3^3 + 3)) + 33) \\
&:= 4 + ((4+4)^4 - (44 + 4/4) + 4) \\
&:= 5 + ((55 \times 55 + (5 - 5/5)^5) + 5) \\
&:= (((6+6)/6)^{6+6}) - (6 \times 6 + 6/6) \\
&:= (7 \times (7 \times (77 + 7) - 7)) - (7/7 + 7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 - 8) + (88/8)) + 8) \\
&:= 99 \times ((9 \times 9 \times 9 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4060 &:= ((1+1)^{1+11}) - ((1+1+1) \times (1+11)) \\
&:= 2 \times (((2^{22/2} - 22) + 2) + 2) \\
&:= (3/3 + 3)^{3+3} - (33 + 3) \\
&:= 4 + (((4+4)^4 - 44) + 4) \\
&:= 5 + (((5+5+5) \times (5 \times 55 - 5)) + 5) \\
&:= (((6+6)/6)^{6+6}) - 6 \times 6 \\
&:= (7 \times (7 \times (77 + 7) - 7)) - 7 \\
&:= 8 + (8 \times 8 \times 8 \times 8 - (88/(8+8)/8)) \\
&:= 9/9 + (99 \times ((9 \times 9 \times 9 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4061 &:= ((1+1) \times ((1+1)^{11} - (1+11))) - 11 \\
&:= (((2 \times 2 \times 22 + 2)^2) + 22)/2 \\
&:= 3^{3+3} + (3333 - 3/3) \\
&:= 4 + (((4+4)^4 - 44) + 4/4 + 4) \\
&:= 5 + ((5 - 5/5) \times ((5 - 5/5)^5 - (5+5))) \\
&:= 66 + (6 \times 666 - 6/6) \\
&:= 7/7 + ((7 \times (7 \times (77 + 7) - 7)) - 7) \\
&:= 8 \times 8 \times 8 \times 8 - ((88/8 + 8 + 8) + 8) \\
&:= (9+9)/9 + (99 \times ((9 \times 9 \times 9 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4062 &:= ((1+1)^{1+11}) - (1+11 \times (1+1+1)) \\
&:= (2 \times (2^{22/2} - 2^{2+2})) - 2 \\
&:= 3^{3+3} + 3333 \\
&:= (4+4)^4 + ((44 - 4)/4 - 44) \\
&:= 5^5 + ((5^5 - 5)/(5+5) + 5^5/5) \\
&:= 66 + 6 \times 666 \\
&:= (7+7)/7 + ((7 \times (7 \times (77 + 7) - 7)) - 7) \\
&:= 8 + (8 \times (8 \times 8 \times 8 - 8) + (88 + 88)/8) \\
&:= 9 \times 9 \times 9 + (9999/(9+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4063 &:= ((1+1)^{1+11}) - (11 \times (1+1+1)) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 22)/2 \\
&:= (3/3 + 3)^{3+3} - 33 \\
&:= 44/4 + ((4+4)^4 - 44) \\
&:= 5^5 + ((5^5 + 5)/(5+5) + 5^5/5) \\
&:= 66 + (6 \times 666 + 6/6) \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) - (77/7)) \\
&:= 8 \times 8 \times 8 \times 8 - ((8/8 + 8 + 8 + 8) + 8) \\
&:= 9 + (((9 \times (9 \times 99 + 9) - 9/9) + 9)/(9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4064 &:= 1 + (((1+1)^{1+11}) - (11 \times (1+1+1))) \\
&:= 2 \times (2^{22/2} - 2^{2+2}) \\
&:= 3/3 + ((3/3 + 3)^{3+3} - 33) \\
&:= 4 \times (4 \times 4^4 - (4+4)) \\
&:= ((5+5)/5)^5 \times (5 \times 5 \times 5 + ((5+5)/5)) \\
&:= 66 + (6 \times 666 + ((6+6)/6)) \\
&:= (7 \times (7 \times (77 + 7) - 7)) - (7+7+7)/7 \\
&:= 8 \times (8 \times 8 \times 8 - (8/(8+8)/8)) \\
&:= (9 - 9/9) \times (((9 \times 999 - 9)/(9+9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4065 &:= ((1+1) \times (1 + (1+1)^{11} - 11)) - 11 \\
&:= 2/2 + (2 \times (2^{22/2} - 2^{2+2})) \\
&:= 3 + (3333 + 3^{3+3}) \\
&:= 4/4 + (4 \times (4 \times 4^4 - (4+4))) \\
&:= (5+5+5) \times ((5 \times 55 - 5) + 5/5) \\
&:= 6 + (((6+6)/6)^{6+6}) - (6 \times 6 + 6/6) \\
&:= (7 \times (7 \times (77 + 7) - 7)) - (7+7)/7 \\
&:= 8 + (((8 \times 8 - 8/8)^{(8+8)/8}) + 88) \\
&:= (9 \times 9 \times 99 + 999/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4066 &:= ((1+1)^{1+11}) - (11 - 1) \times (1+1+1) \\
&:= 2 + (2 \times (2^{22/2} - 2^{2+2})) \\
&:= 3 + ((3/3 + 3)^{3+3} - 33) \\
&:= (4+4)^4 + ((4+4)/4 - 4 \times (4+4)) \\
&:= (5 - 5/5)^{5/5+5} - (5 \times 5 + 5) \\
&:= 6 + (((6+6)/6)^{6+6}) - 6 \times 6 \\
&:= (7 \times (7 \times (77 + 7) - 7)) - 7/7 \\
&:= 8 \times 8 \times 8 \times 8 - ((88 + 88)/8 + 8) \\
&:= ((99 - 9/9) + 9) \times ((99/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4067 &:= 1 + (((1+1)^{1+11}) - ((11 - 1) \times (1+1+1))) \\
&:= 2 + ((2 \times (2^{22/2} - 2^{2+2})) + 2/2) \\
&:= 3 + (((3/3 + 3)^{3+3} - 33) + 3/3) \\
&:= 4 + ((44/4 - 44) + (4+4)^4) \\
&:= 5 + (((5^5 - 5)/(5+5) + 5^5/5) + 5^5) \\
&:= (6 \times ((666 + 6) + 6)) - 6/6 \\
&:= 7 \times (7 \times (77 + 7) - 7) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 - 8) + (88/8)) + 8) + 8) \\
&:= 9 + (99 \times ((9 \times 9 \times 9 + 9)/(9+9))) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4068 &:= (1+1) \times ((1+1)^{11} - (1 + (1+1+11))) \\
&:= 2 \times ((2^{22/2} - 2^{2+2}) + 2) \\
&:= (3 \times 3 + 3) \times (333 + 3 + 3) \\
&:= 4 + (4 \times (4 \times 4^4 - (4+4))) \\
&:= (5/5 + 5) \times ((5^5 - 5 - 5)/5 + 55) \\
&:= 6 \times ((666 + 6) + 6) \\
&:= 7/7 + (7 \times (7 \times (77 + 7) - 7)) \\
&:= (8/8 + 8) \times (888/(8+8)/8) + 8) \\
&:= 9 + (99 \times ((9 \times 9 \times 9 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4069 &:= ((1+1)^{1+11}) - (1+1+1)^{1+1+1} \\
&:= 2 \times (2^{22/2} - 2) - 22 - 2/2 \\
&:= (3/3 + 3)^{3+3} - 3^3 \\
&:= (4+4)^4 - (44/4 + 4 \times 4) \\
&:= 5^5 + ((5 - 5/5)^5 - (5 \times 5 + 55)) \\
&:= 6/6 + (6 \times ((666 + 6) + 6)) \\
&:= (7+7)/7 + (7 \times (7 \times (77 + 7) - 7)) \\
&:= 8 \times 8 \times 8 \times 8 - (88/8 + 8 + 8) \\
&:= ((9 - 9/9) \times ((9+9)/9)^9) - (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4070 &:= (1+1) \times ((1+1)^{11} - (1+1+11)) \\
&:= 2 \times (2^{22/2} - 2) - 22 \\
&:= 3/3 + ((3/3 + 3)^{3+3} - 3^3) \\
&:= (4+4)^4 + ((4 - 44)/4 - 4 \times 4) \\
&:= 55 \times ((5 \times (5+5+5)) - 5/5) \\
&:= (6+6)/6 + (6 \times ((666 + 6) + 6)) \\
&:= (7+7+7)/7 + (7 \times (7 \times (77 + 7) - 7)) \\
&:= (8 - 88)/8 + (8 \times 8 \times 8 \times 8 - (8+8)) \\
&:= 99/9 + (99 \times ((9 \times 9 \times 9 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4071 &:= ((1+1) \times ((1+1)^{11} - (1+11))) - 1 \\
&:= 22 + (((2 \times 2 \times 22 + 2)^2) - 2)/2 \\
&:= (3 \times ((33/3)^3 + 3^3)) - 3 \\
&:= (4+4)^4 - (((4 \times 4 + 4/4) + 4) + 4) \\
&:= (5 - 5/5)^{5/5+5} - 5 \times 5 \\
&:= 666/6 + (6 \times (666 - 6)) \\
&:= 77/7 + ((7 \times (7 \times (77 + 7) - 7)) - 7) \\
&:= 8 \times 8 \times 8 \times 8 - (8/8 + 8 + 8 + 8) \\
&:= ((9 - 9/9) \times (((9+9)/9)^9) - ((9+9)/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4072 &:= (1+1) \times ((1+1)^{11} - (1+11)) \\
&:= 2^{2 \times (2+2+2)} - 22 - 2 \\
&:= 3 + ((3/3 + 3)^{3+3} - 3^3) \\
&:= (4+4)^4 - ((4 \times 4 + 4) + 4) \\
&:= 5/5 + ((5 - 5/5)^{5/5+5} - 5 \times 5) \\
&:= 6 + (((6+6)/6)^{6+6}) - 6 \times 6 + 6) \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) - ((7+7)/7)) \\
&:= 8 \times 8 \times 8 \times 8 - 8 - 8 - 8 \\
&:= (9 - 9/9) \times ((9 \times 999 + 9)/(9+9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4073 &:= ((1+1) \times ((1+1)^{11} - 11)) - 1 \\
&:= 2^{2 \times (2+2+2)} - 22 - 2/2 \\
&:= (3 \times ((33/3)^3 + 3^3)) - 3/3 \\
&:= 4 + ((4+4)^4 - (44/4 + 4 \times 4)) \\
&:= 5 + ((5/5 + 5) \times ((5^5 - 5 - 5)/5 + 55)) \\
&:= 6 + ((6 \times ((666 + 6) + 6)) - 6/6) \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) - 7/7) \\
&:= 8/8 + (8 \times 8 \times 8 \times 8 - (8 + 8 + 8)) \\
&:= (9 \times 9 - 9)^{(9+9)/9} - 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4074 &:= (1+1) \times ((1+1)^{11} - 11) \\
&:= 2^{2 \times (2+2+2)} - 22 \\
&:= 3 \times ((33/3)^3 + 3^3) \\
&:= (4+4)^4 - (44/((4+4)/4)) \\
&:= (5/5 + 5) \times ((5^5 - 5)/5 + 55) \\
&:= 6 + (6 \times ((666 + 6) + 6)) \\
&:= 7 + (7 \times (7 \times (77 + 7) - 7)) \\
&:= 8 \times 8 \times 8 \times 8 - (88 + 88)/8 \\
&:= 9 + ((9 \times 9 \times 99 + 999/9)/(9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4075 &:= 1 + ((1+1) \times ((1+1)^{11} - 11)) \\
&:= 2/2 + (2^{2 \times (2+2+2)} - 22) \\
&:= 3 + (((3/3 + 3)^{3+3} - 3^3) + 3) \\
&:= (4+4)^4 - ((4 \times 4 + 4/4) + 4) \\
&:= 5 \times (55 \times (5 + 5 + 5) - (5 + 5)) \\
&:= 6 + ((6 \times ((666 + 6) + 6)) + 6/6) \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) + 7/7) \\
&:= 8 \times 8 \times 8 \times 8 + ((8 - (88 + 88))/8) \\
&:= (9 \times (9 + 9) + 9/9) \times (((9 - (9 + 9)/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4076 &:= (1+1) \times (1 + (1+1)^{11} - 11) \\
&:= 2 + (2^{2 \times (2+2+2)} - 22) \\
&:= 3 + ((3 \times ((33/3)^3 + 3^3)) - 3/3) \\
&:= (4+4)^4 - 4 \times 4 - 4 \\
&:= (5 - 5/5) \times ((5 - 5/5)^5 - 5) \\
&:= 6 + ((6 \times ((666 + 6) + 6)) + ((6 + 6)/6)) \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) + ((7 + 7)/7)) \\
&:= 8 \times 8 \times 8 \times 8 - ((88 + 8)/8 + 8) \\
&:= (((9 + 9)/9)^9) + ((9 + 9) \times (99 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4077 &:= 1 + ((1+1) \times (1 + (1+1)^{11} - 11)) \\
&:= 2 + (2^{2 \times (2+2+2)} - 22) + 2/2) \\
&:= 3 + (3 \times ((33/3)^3 + 3^3)) \\
&:= 4/4 + ((4+4)^4 - (4 \times 4 + 4)) \\
&:= 5/5 + ((5 - 5/5) \times ((5 - 5/5)^5 - 5)) \\
&:= 6 + ((6 \times (666 - 6)) + 666/6) \\
&:= ((77 - 7)/7) + (7 \times (7 \times (77 + 7) - 7)) \\
&:= 8 \times 8 \times 8 \times 8 - (88/8 + 8) \\
&:= 999 + ((9 + 9) \times (9 \times (9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4078 &:= (1+1) \times (1 + (1 + (1+1)^{11} - 11)) \\
&:= (2 \times (2^{22/2} + 2)) - 22 \\
&:= (3/3 + 3)^{3+3} - (3 \times (3 + 3)) \\
&:= (4+4)^4 - ((4+4)/4 + 4 \times 4) \\
&:= (5+5)/5 + ((5 - 5/5) \times ((5 - 5/5)^5 - 5)) \\
&:= (((6 + 6)/6)^{6+6}) - 6 - 6 - 6 \\
&:= 77/7 + (7 \times (7 \times (77 + 7) - 7)) \\
&:= (8 - 88)/8 + (8 \times 8 \times 8 \times 8 - 8) \\
&:= ((9 - 9/9) \times ((9 + 9)/9)^9) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4079 &:= 1 + ((1+1) \times (1 + (1 + (1+1)^{11} - 11))) \\
&:= 2/2 + ((2 \times (2^{22/2} + 2)) - 22) \\
&:= 3/3 + ((3/3 + 3)^{3+3} - (3 \times (3 + 3))) \\
&:= (4+4)^4 - (4 \times 4 + 4/4) \\
&:= 5 + ((5/5 + 5) \times ((5^5 - 5)/5 + 55)) \\
&:= 66/6 + (6 \times ((666 + 6) + 6)) \\
&:= (77 + 7)/7 + (7 \times (7 \times (77 + 7) - 7)) \\
&:= 8 \times 8 \times 8 \times 8 - (8/8 + 8 + 8) \\
&:= ((9 - 9/9) \times (((9 + 9)/9)^9) - 9/9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4080 &:= (1+1) \times (1 + (1 + (1 + (1+1)^{11} - 11))) \\
&:= 2 \times (2^{22/2} - 2 \times (2 + 2)) \\
&:= 3 + ((3 \times ((33/3)^3 + 3^3)) + 3) \\
&:= 4 \times (4 \times 4^4 - 4) \\
&:= (5/5 + 5) \times (5^5/5 + 55) \\
&:= 6 + ((6 \times ((666 + 6) + 6)) + 6) \\
&:= (7 \times 7 - 7/7) \times (7/7 + 77 + 7) \\
&:= 8 \times 8 \times 8 \times 8 - 8 - 8 \\
&:= (9 - 9/9) \times (((9 + 9)/9)^9) - ((9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4081 &:= ((1+1) \times ((1+1)^{11} - (1+1))) - 11 \\
&:= 2 \times (2^{22/2} - 2) - 22/2 \\
&:= 3 + ((3/3 + 3)^{3+3} - (3 \times (3 + 3))) \\
&:= 4/4 + 4 \times (4 \times 4^4 - 4) \\
&:= 5 + ((5 - 5/5) \times ((5 - 5/5)^5 - 5)) \\
&:= 6 + (((6 \times ((666 + 6) + 6)) + 6/6) + 6) \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) + 7) \\
&:= 8/8 + (8 \times 8 \times 8 \times 8 - (8 + 8)) \\
&:= 9 + ((9 - 9/9) \times (((9 \times 999 + 9)/(9 + 9)) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4082 &:= ((1+1)^{1+11}) - 1 - 1 - 1 - 11 \\
&:= 2 + (2 \times (2^{22/2} - 2 \times (2 + 2))) \\
&:= (3/3 + 3)^{3+3} - (33/3 + 3) \\
&:= (4+4)^4 + ((4+4)/4 - 4 \times 4) \\
&:= 5 + (((5 - 5/5) \times ((5 - 5/5)^5 - 5)) + 5/5) \\
&:= (((6 + 6)/6)^{6+6}) - ((6 + 6)/6 + 6 + 6) \\
&:= ((7/7 + 7)^{77/7-7}) - (7 + 7) \\
&:= (8 + 8)/8 + (8 \times 8 \times 8 \times 8 - (8 + 8)) \\
&:= 9 + ((9 \times 9 - 9)^{(9+9)/9} - 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4083 &:= ((1+1)^{1+11}) - 1 - 1 - 11 \\
&:= 2^{2 \times (2+2+2)} - (22/2 + 2) \\
&:= 3 \times (((33/3)^3 + 3^3) + 3) \\
&:= 4 + ((4+4)^4 - (4 \times 4 + 4/4)) \\
&:= 5^5 + ((5 - 5/5)^5 - (55/5 + 55)) \\
&:= (((6 + 6)/6)^{6+6}) - (6/6 + 6 + 6) \\
&:= 7 + (((7 \times (7 \times (77 + 7) - 7)) + ((7 + 7)/7)) + 7) \\
&:= 8 \times 8 \times 8 \times 8 - (88 + 8 + 8)/8 \\
&:= ((9 - 9/9) \times ((9 + 9)/9)^9) - (99 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4084 &:= ((1+1)^{1+11}) - 1 - 11 \\
&:= 2 \times (2^{22/2} - (2 + 2 + 2)) \\
&:= (3/3 + 3)^{3+3} - (3 \times 3 + 3) \\
&:= 4 + 4 \times (4 \times 4^4 - 4) \\
&:= 5^5 + ((5 - 5/5)^5 - (55 + 5 + 5)) \\
&:= (((6 + 6)/6)^{6+6}) - 6 - 6 \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) + ((77 - 7)/7)) \\
&:= 8 \times 8 \times 8 \times 8 - (88 + 8)/8 \\
&:= ((9 - 9/9) \times ((9 + 9)/9)^9) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4085 &:= ((1+1)^{1+11}) - 11 \\
&:= 2^{2 \times (2+2+2)} - 22/2 \\
&:= (3/3 + 3)^{3+3} - 33/3 \\
&:= (4+4)^4 - 44/4 \\
&:= 5 + ((5/5 + 5) \times (5^5/5 + 55)) \\
&:= (((6 + 6)/6)^{6+6}) - 66/6 \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) + (77/7)) \\
&:= 8 \times 8 \times 8 \times 8 - 88/8 \\
&:= ((9 - 9/9) \times ((9 + 9)/9)^9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4086 &:= 1 + (((1+1)^{1+11}) - 11) \\
&:= (2 \times (2^{22/2} - (2 + 2))) - 2 \\
&:= (3 + 3) \times (3 \times (3 + 3)^3 + 33) \\
&:= (4+4)^4 + (4 - 44)/4 \\
&:= (5 - 5/5)^{5/5+5} - 5 - 5 \\
&:= (6 \times 66 \times (6 + 6)) - 666 \\
&:= 7 + ((7 \times (7 \times (77 + 7) - 7)) + (77 + 7)/7) \\
&:= (8 - 88)/8 + 8 \times 8 \times 8 \times 8 \\
&:= 9 \times (((9 \times 9 \times 99 - 9)/(9 + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4087 &:= 1 + (1 + (((1+1)^{1+11}) - 11)) \\
&:= 2 + (2^{2 \times (2+2+2)} - 22/2) \\
&:= (3/3 + 3)^{3+3} - 3 \times 3 \\
&:= (4+4)^4 - (4/4 + 4 + 4) \\
&:= 5/5 + ((5 - 5/5)^{5/5+5} - (5 + 5)) \\
&:= (66 + 6/6) \times (66 - 6 + 6/6) \\
&:= 7 + ((7 \times 7 - 7/7) \times (7/7 + 77 + 7)) \\
&:= 8 \times 8 \times 8 \times 8 - (8/8 + 8) \\
&:= ((9 - 9/9) \times ((9 + 9)/9)^9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4088 &:= 1 + (1 + (1 + ((1 + 1)^{1+11}) - 11)) \\
&:= 2 \times (2^{22/2} - (2 + 2)) \\
&:= 3 + ((3/3 + 3)^{3+3} - 33/3) \\
&:= (4 + 4)^4 - 4 - 4 \\
&:= (5 - 5/5) \times ((5 - 5/5)^5 - ((5 + 5)/5)) \\
&:= (((6 + 6)/6)^{6+6}) - ((6 + 6)/6 + 6) \\
&:= (7 \times (7 \times (77 + 7) + 7)) - 77 \\
&:= 8 \times 8 \times 8 \times 8 - 8 \\
&:= (9 - 9/9) \times (((9 + 9)/9)^9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4089 &:= ((1 + 1) \times (1 + (1 + (1 + 1)^{11}))) - 11 \\
&:= 2/2 + (2 \times (2^{22/2} - (2 + 2))) \\
&:= 3 \times ((33/3)^3 + 33) - 3 \\
&:= 4 + ((4 + 4)^4 - 44/4) \\
&:= 5^5 + ((5 - 5/5)^5 - (55 + 5)) \\
&:= (((6 + 6)/6)^{6+6}) - 6/6 - 6 \\
&:= ((7/7 + 7)^{77/7-7}) - 7 \\
&:= 8/8 + (8 \times 8 \times 8 \times 8 - 8) \\
&:= 9 + ((9 - 9/9) \times (((9 + 9)/9)^9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4090 &:= (1 + 1) \times ((1 + 1)^{11} - (1 + 1 + 1)) \\
&:= 2 \times (2^{22/2} - 2) - 2 \\
&:= (3/3 + 3)^{3+3} - 3 - 3 \\
&:= (4 + 4)^4 - ((4 + 4)/4 + 4) \\
&:= (5 - 5/5)^{5/5+5} - (5/5 + 5) \\
&:= (((6 + 6)/6)^{6+6}) - 6 \\
&:= 7/7 + (((7/7 + 7)^{77/7-7}) - 7) \\
&:= (8 + 8)/8 + (8 \times 8 \times 8 \times 8 - 8) \\
&:= 9 \times 9 + ((9 \times 9 \times 99 - 9/9)/(9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4091 &:= ((1 + 1) \times ((1 + 1)^{11} - (1 + 1))) - 1 \\
&:= 2 \times (2^{22/2} - 2) - 2/2 \\
&:= 3/3 + ((3/3 + 3)^{3+3} - (3 + 3)) \\
&:= (4 + 4)^4 - 4/4 - 4 \\
&:= (5 - 5/5)^{5/5+5} - 5 \\
&:= 6/6 + (((6 + 6)/6)^{6+6}) - 6 \\
&:= 7 \times 7 \times (77 + 7) - (77/7 + 7 + 7) \\
&:= 88/8 + (8 \times 8 \times 8 \times 8 - (8 + 8)) \\
&:= 9 \times 9 + ((9 \times 9 \times 99 + 9/9)/(9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4092 &:= (1 + 1) \times ((1 + 1)^{11} - (1 + 1)) \\
&:= 2 \times (2^{22/2} - 2) \\
&:= 3 \times ((33/3)^3 + 33) \\
&:= (4 + 4)^4 - 4 \\
&:= 5/5 + ((5 - 5/5)^{5/5+5} - 5) \\
&:= 66 + (6 \times (666 + 6) - 6) \\
&:= (77 + 7)/7 \times (7 \times 7 \times 7 - ((7 + 7)/7)) \\
&:= 8 \times 8 \times 8 \times 8 - (8/(8 + 8)/8) \\
&:= 99/9 \times ((99 \times 99/(9 + 9 + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4093 &:= ((1 + 1)^{1+11}) - 1 - 1 - 1 \\
&:= 2/2 + 2 \times (2^{22/2} - 2) \\
&:= (3/3 + 3)^{3+3} - 3 \\
&:= 4/4 + ((4 + 4)^4 - 4) \\
&:= 5^5 + ((5 - 5/5)^5 - (55 + 5/5)) \\
&:= (((6 + 6)/6)^{6+6}) - 6 \times 6/(6 + 6) \\
&:= 7 \times 7 \times (77 + 7) - (((7 + 7)/7 + 7) + 7) + 7 \\
&:= 8 + (8 \times 8 \times 8 \times 8 - (88/8)) \\
&:= ((9 - 9/9) \times ((9 + 9)/9)^9) - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4094 &:= (1 + 1) \times ((1 + 1)^{11} - 1) \\
&:= 2^{2 \times (2+2+2)} - 2 \\
&:= 3/3 + ((3/3 + 3)^{3+3} - 3) \\
&:= (4 + 4)^4 - (4 + 4)/4 \\
&:= 5^5 + ((5 - 5/5)^5 - 55) \\
&:= (((6 + 6)/6)^{6+6}) - (6 + 6)/6 \\
&:= 7 \times 7 \times (77 + 7) - (7/7 + 7 + 7 + 7) \\
&:= 8 \times 8 \times 8 \times 8 - (8 + 8)/8 \\
&:= ((9 - 9/9) \times ((9 + 9)/9)^9) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4095 &:= ((1 + 1)^{1+11}) - 1 \\
&:= 2^{2 \times (2+2+2)} - 2/2 \\
&:= (3/3 + 3)^{3+3} - 3/3 \\
&:= (4 + 4)^4 - 4/4 \\
&:= (5 - 5/5)^{5/5+5} - 5/5 \\
&:= (((6 + 6)/6)^{6+6}) - 6/6 \\
&:= 7 \times 7 \times (77 + 7) - (7 + 7 + 7) \\
&:= 8 \times 8 \times 8 \times 8 - 8/8 \\
&:= 9 \times (((9 \times 9 \times 99 + 9)/(9 + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4096 &:= (1 + 1)^{1+11} \\
&:= 2^{2 \times (2+2+2)} \\
&:= (3/3 + 3)^{3+3} \\
&:= (4 + 4)^4 \\
&:= (5 - 5/5)^{5/5+5} \\
&:= ((6 + 6)/6)^{6+6} \\
&:= (7/7 + 7)^{77/7-7} \\
&:= 8 \times 8 \times 8 \times 8 \\
&:= (9 - 9/9) \times ((9 + 9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4097 &:= 1 + ((1 + 1)^{1+11}) \\
&:= 2/2 + 2^{2 \times (2+2+2)} \\
&:= 3/3 + (3/3 + 3)^{3+3} \\
&:= 4/4 + (4 + 4)^4 \\
&:= 5/5 + (5 - 5/5)^{5/5+5} \\
&:= 6/6 + (((6 + 6)/6)^{6+6}) \\
&:= 7/7 + ((7/7 + 7)^{77/7-7}) \\
&:= 8/8 + 8 \times 8 \times 8 \times 8 \\
&:= 9/9 + ((9 - 9/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4098 &:= 1 + (1 + ((1 + 1)^{1+11})) \\
&:= 2 + 2^{2 \times (2+2+2)} \\
&:= 3 + ((3/3 + 3)^{3+3} - 3/3) \\
&:= (4 + 4)^4 + (4 + 4)/4 \\
&:= (5 + 5)/5 + (5 - 5/5)^{5/5+5} \\
&:= 66 + 6 \times (666 + 6) \\
&:= 7 \times 7 \times (77 + 7) - (77/7 + 7) \\
&:= (8 + 8)/8 + 8 \times 8 \times 8 \times 8 \\
&:= (9 + 9)/9 + ((9 - 9/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4099 &:= 1 + (1 + (1 + ((1 + 1)^{1+11}))) \\
&:= 2 + (2^{2 \times (2+2+2)} + 2/2) \\
&:= 3 + (3/3 + 3)^{3+3} \\
&:= 4 + ((4 + 4)^4 - 4/4) \\
&:= 5 + (((5 - 5/5)^5 - 55) + 5^5) \\
&:= 66 + (6 \times (666 + 6) + 6/6) \\
&:= ((7 - 77)/7) + (7 \times 7 \times (77 + 7) - 7) \\
&:= 88/8 + (8 \times 8 \times 8 \times 8 - 8) \\
&:= ((9 + 9 + 9)/9) + ((9 - 9/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4100 &:= (1 + 1) \times (1 + (1 + (1 + 1)^{11})) \\
&:= 2 \times (2^{22/2} + 2) \\
&:= 3 + ((3/3 + 3)^{3+3} + 3/3) \\
&:= 4 + (4 + 4)^4 \\
&:= 5 \times (55 \times (5 + 5 + 5) - 5) \\
&:= 6 + (((6 + 6)/6)^{6+6}) - ((6 + 6)/6) \\
&:= (7/7 + 7 \times 7) \times ((77 - (7 + 7)/7) + 7) \\
&:= 8 \times 8 \times 8 \times 8 + (8/(8 + 8)/8) \\
&:= (9/9 + 9 \times 9) \times ((9 \times 99 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4101 &:= 1 + ((1 + 1) \times (1 + (1 + (1 + 1)^{11}))) \\
&:= 2/2 + (2 \times (2^{22/2} + 2)) \\
&:= 3 \times (((33/3)^3 + 33) + 3) \\
&:= 4 + ((4 + 4)^4 + 4/4) \\
&:= 5 + (5 - 5/5)^{5/5+5} \\
&:= 6 + (((6 + 6)/6)^{6+6}) - 6/6 \\
&:= 7 \times 7 \times (77 + 7) - (7/7 + 7 + 7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - (88/8)) + 8) \\
&:= ((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4102 &:= (1 + 1) \times (1 + (1 + (1 + 1)^{11})) \\
&:= 2 + (2 \times (2^{22/2} + 2)) \\
&:= 3 + ((3/3 + 3)^{3+3} + 3) \\
&:= 4 + ((4 + 4)^4 + (4 + 4)/4) \\
&:= 5 + ((5 - 5/5)^{5/5+5} + 5/5) \\
&:= 6 + (((6 + 6)/6)^{6+6}) \\
&:= 7 \times 7 \times (77 + 7) - (7 + 7) \\
&:= 8 + (8 \times 8 \times 8 \times 8 - ((8 + 8)/8)) \\
&:= 9 + (((9 - 9/9) \times ((9 + 9)/9)^9) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4103 &:= 1 + ((1+1) \times (1 + (1 + (1 + (1+1)^{11})))) \\
&:= 2 + ((2 \times (2^{22/2} + 2)) + 2/2) \\
&:= 3 + (((3/3+3)^{3+3} + 3/3) + 3) \\
&:= 4 + (((4+4)^4 - 4/4) + 4) \\
&:= 5 + ((5-5/5)^{5/5+5} + (5+5)/5) \\
&:= 6 + (((6+6)/6)^{6+6} + 6/6) \\
&:= 7 + ((7/7+7)^{77/7-7}) \\
&:= 8 + (8 \times 8 \times 8 \times 8 - 8/8) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4104 &:= 11 + (((1+1)^{1+11}) - (1+1+1)) \\
&:= 2 \times (2^{22/2} + 2) + 2 \\
&:= 3^{3+3} + (3 \times 3 + 3 + 3)^3 \\
&:= 4 + ((4+4)^4 + 4) \\
&:= 5 + (((5-5/5)^5 - 55) + 5^5) + 5 \\
&:= 6 \times (((666+6) + 6) + 6) \\
&:= (77+7)/7 \times (7 \times 7 \times 7 - 7/7) \\
&:= 8 + 8 \times 8 \times 8 \times 8 \\
&:= (9-9/9) \times (((9+9)/9)^9) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4105 &:= 11 + ((1+1) \times ((1+1)^{11} - 1)) \\
&:= 2/2 + (2 \times ((2^{22/2} + 2) + 2)) \\
&:= 3 \times 3 + (3/3+3)^{3+3} \\
&:= 4 + (((4+4)^4 + 4/4) + 4) \\
&:= 5 + (5 \times (55 \times (5+5+5) - 5)) \\
&:= 6/6 + (6 \times (((666+6) + 6) + 6)) \\
&:= 7 \times 7 \times (77+7) - 77/7 \\
&:= 8 + (8 \times 8 \times 8 \times 8 + 8/8) \\
&:= 9 + ((9-9/9) \times ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4106 &:= 11 + (((1+1)^{1+11}) - 1) \\
&:= 2 + (2 \times ((2^{22/2} + 2) + 2)) \\
&:= 3 \times 3 + ((3/3+3)^{3+3} + 3/3) \\
&:= (4+4)^4 + (44-4)/4 \\
&:= 5 + ((5-5/5)^{5/5+5} + 5) \\
&:= ((66-6)/6) + (((6+6)/6)^{6+6}) \\
&:= ((7-77)/7) + 7 \times 7 \times (77+7) \\
&:= 8 + (8 \times 8 \times 8 \times 8 + (8+8)/8) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4107 &:= 11 + ((1+1)^{1+11}) \\
&:= 22/2 + 2^{2 \times (2+2+2)} \\
&:= 33/3 + (3/3+3)^{3+3} \\
&:= 44/4 + (4+4)^4 \\
&:= 55/5 + (5-5/5)^{5/5+5} \\
&:= 66/6 + (((6+6)/6)^{6+6}) \\
&:= 7 \times 7 \times (77+7) - ((7+7)/7 + 7) \\
&:= 88/8 + 8 \times 8 \times 8 \times 8 \\
&:= 99/9 + ((9-9/9) \times ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4108 &:= 1 + (11 + ((1+1)^{1+11})) \\
&:= 2 \times (((2^{22/2} + 2) + 2) + 2) \\
&:= 3 + ((3/3+3)^{3+3} + 3 \times 3) \\
&:= 4 + (((4+4)^4 + 4) + 4) \\
&:= ((55+5)/5) + (5-5/5)^{5/5+5} \\
&:= 6 + (((6+6)/6)^{6+6} + 6) \\
&:= 7 \times 7 \times (77+7) - (7/7+7) \\
&:= ((88+8)/8) + 8 \times 8 \times 8 \times 8 \\
&:= 99 + ((9 \times 9 \times 99 - 9/9) / ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4109 &:= 1 + (1 + (11 + ((1+1)^{1+11}))) \\
&:= 2 + (2^{2 \times (2+2+2)} + 22/2) \\
&:= 3 + (((3/3+3)^{3+3} + 3/3) + 3 \times 3) \\
&:= 4 + (((4+4)^4 + 4/4) + 4) + 4 \\
&:= 5 \times 55 \times (5+5+5) - (55/5+5) \\
&:= 6 + (((6+6)/6)^{6+6} + 6/6) + 6 \\
&:= 7 \times 7 \times (77+7) - 7 \\
&:= 8 \times 8 \times 8 \times 8 + (88+8+8)/8 \\
&:= 9 + ((9/9+9 \times 9) \times ((9 \times 99+9) / (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4110 &:= 1 + (1 + (1 + (11 + ((1+1)^{1+11})))) \\
&:= 2 + (2 \times ((2^{22/2} + 2) + 2) + 2) \\
&:= 3 + ((3/3+3)^{3+3} + 33/3) \\
&:= 4 + ((44-4)/4 + (4+4)^4) \\
&:= (5+5+5) \times (5 \times 55 - 5/5) \\
&:= 6 + (6 \times (((666+6) + 6) + 6)) \\
&:= 7/7 + (7 \times 7 \times (77+7) - 7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - ((8+8)/8)) + 8) \\
&:= 9 + (((9+9) \times (9 \times (9+9+9) - 9)) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4111 &:= 11 + ((1+1) \times (1 + (1 + (1+1)^{11}))) \\
&:= 22/2 + (2 \times (2^{22/2} + 2)) \\
&:= 3 + (((3/3+3)^{3+3} + 3 \times 3) + 3) \\
&:= 4 + (44/4 + (4+4)^4) \\
&:= 5 + (((5-5/5)^{5/5+5} + 5) + 5) \\
&:= 6 + ((6 \times (((666+6) + 6) + 6)) + 6/6) \\
&:= (7+7)/7 + (7 \times 7 \times (77+7) - 7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - 8/8) + 8) \\
&:= ((9+9+9) \times (9 \times (9+9) - 9)) - (99/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4112 &:= 1 + (11 + ((1+1) \times (1 + (1 + (1+1)^{11})))) \\
&:= 2 \times (2^{22/2} + 2 \times (2+2)) \\
&:= 3^3 + ((3/3+3)^{3+3} - 33/3) \\
&:= 4 \times (4 \times 4^4 + 4) \\
&:= 5 + ((5-5/5)^{5/5+5} + (55/5)) \\
&:= 6 + (((6+6)/6)^{6+6} + ((66-6)/6)) \\
&:= 7 + (7 \times 7 \times (77+7) - (77/7)) \\
&:= 8 + (8 \times 8 \times 8 \times 8) \\
&:= (9-9/9) \times (((9+9)/9)^9) + ((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4113 &:= 11 + ((1+1) \times (1 + (1 + (1 + (1+1)^{11})))) \\
&:= 2 + ((2 \times (2^{22/2} + 2)) + 22/2) \\
&:= ((3 \times 3 + 3) \times ((3/3+3+3)^3)) - 3 \\
&:= 4 \times 4 + ((4+4)^4 + 4/4) \\
&:= 5 \times 55 \times (5+5+5) - (55+5)/5 \\
&:= 6 + (((6+6)/6)^{6+6} + (66/6)) \\
&:= 7 \times 7 \times (77+7) - (7+7+7)/7 \\
&:= 8 + ((8 \times 8 \times 8 \times 8 + 8/8) + 8) \\
&:= ((9+9+9) \times (9 \times (9+9) - 9)) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4114 &:= (1+1) \times (11 + ((1+1)^{11} - (1+1))) \\
&:= 22 + 2 \times (2^{22/2} - 2) \\
&:= (3 \times (3+3)) + (3/3+3)^{3+3} \\
&:= 4 \times 4 + ((4+4)^4 + (4+4)/4) \\
&:= 5 \times 55 \times (5+5+5) - 55/5 \\
&:= 6 + (((6+6)/6)^{6+6} + 6) + 6 \\
&:= 7 \times 7 \times (77+7) - (7+7)/7 \\
&:= 8 + ((8 \times 8 \times 8 \times 8 + ((8+8)/8)) + 8) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4115 &:= ((1+1) \times (11 + ((1+1)^{11} - 1))) - 1 \\
&:= 22 + (2 \times (2^{22/2} - 2) + 2/2) \\
&:= 3/3 + ((3/3+3)^{3+3} + (3 \times (3+3))) \\
&:= 4 + ((44/4 + (4+4)^4) + 4) \\
&:= 5 \times 55 \times (5+5+5) - 5 - 5 \\
&:= 6 + (((6+6)/6)^{6+6} + 6/6) + 6 + 6 \\
&:= 7 \times 7 \times (77+7) - 7/7 \\
&:= 8 + (8 \times 8 \times 8 \times 8 + (88/8)) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9) + 9/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4116 &:= (1+1) \times (11 + ((1+1)^{11} - 1)) \\
&:= 22 + (2^{2 \times (2+2+2)} - 2) \\
&:= (3 \times 3 + 3) \times ((3/3+3+3)^3) \\
&:= 4 + ((4+4)^4 + 4 \times 4) \\
&:= (5-5/5) \times ((5-5/5)^5 + 5) \\
&:= 6 + ((6 \times (((666+6) + 6) + 6)) + 6) \\
&:= 7 \times 7 \times (77+7) \\
&:= 8 + (((88+8)/8) + 8 \times 8 \times 8 \times 8) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4117 &:= ((1+1) \times (11 + (1+1)^{11})) - 1 \\
&:= 22 + (2^{2 \times (2+2+2)} - 2/2) \\
&:= 3 + ((3/3+3)^{3+3} + (3 \times (3+3))) \\
&:= 4 + (((4+4)^4 + 4/4) + 4 \times 4) \\
&:= 5^5 + ((5-5/5)^5 - ((5+5)/5)^5) \\
&:= 6 \times 666 + ((66/6) \times (66/6)) \\
&:= 7/7 + 7 \times 7 \times (77+7) \\
&:= 8 + ((88+8+8)/8 + 8 \times 8 \times 8 \times 8) \\
&:= 9 + (((9 \times 9 \times 99 - 9/9) / ((9+9)/9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4118 &:= (1+1) \times (11+(1+1)^{11}) \\
&:= 22 + 2^{2 \times (2+2+2)} \\
&:= 33 + ((3/3+3)^{3+3} - 33/3) \\
&:= (4+4)^4 + (44/((4+4)/4)) \\
&:= 5 \times 55 \times (5+5+5) - ((5+5)/5+5) \\
&:= 6 \times 666 + ((666+66)/6) \\
&:= (7+7)/7 + 7 \times 7 \times (77+7) \\
&:= 8 \times 8 \times 8 \times 8 + (88+88)/8 \\
&:= 9 + (((9/9+9 \times 9) \times ((9 \times 99+9)/(9+9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4119 &:= 1 + ((1+1) \times (11+(1+1)^{11})) \\
&:= 22 + (2^{2 \times (2+2+2)} + 2/2) \\
&:= 3 + ((3 \times 3+3) \times ((3/3+3+3)^3)) \\
&:= 4 + (((44/4+(4+4)^4) + 4) + 4) \\
&:= 5^5 + ((5-5/5)^5 - (5 \times 5+5)) \\
&:= 6 + (((((6+6)/6)^{6+6}) + (66/6)) + 6) \\
&:= (7+7+7)/7 + 7 \times 7 \times (77+7) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 - 8/8) + 8) + 8) \\
&:= ((9+9+9) \times (9 \times (9+9) - 9)) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4120 &:= (1+1) \times (1+(11+(1+1)^{11})) \\
&:= 2 + (2^{2 \times (2+2+2)} + 22) \\
&:= 3^3 + ((3/3+3)^{3+3} - 3) \\
&:= 4 + (((4+4)^4 + 4 \times 4) + 4) \\
&:= 5 \times 55 \times (5+5+5) - 5 \\
&:= 6 + (((((6+6)/6)^{6+6}) + 6) + 6) + 6) \\
&:= 77/7 + (7 \times 7 \times (77+7) - 7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 + 8) + 8) \\
&:= ((9+9+9) \times (9 \times (9+9) - 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4121 &:= 1 + ((1+1) \times (1+(11+(1+1)^{11}))) \\
&:= 2 + ((2^{2 \times (2+2+2)} + 2/2) + 22) \\
&:= 3^3 + (((3/3+3)^{3+3} - 3) + 3/3) \\
&:= 4 + (((4+4)^4 + 4/4) + 4 \times 4) + 4) \\
&:= 5 \times 5 + (5-5/5)^{5/5+5} \\
&:= 6 \times 6 + (((((6+6)/6)^{6+6}) - (66/6)) \\
&:= 7 + (7 \times 7 \times (77+7) - ((7+7)/7)) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 + 8/8) + 8) + 8) \\
&:= ((9+9+9) \times (9 \times (9+9) - 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4122 &:= (1+1) \times (1+(1+(11+(1+1)^{11}))) \\
&:= 22 + (2 \times (2^{22/2} + 2)) \\
&:= (33 \times (3-3/3+3)^3) - 3 \\
&:= 4 + ((44/((4+4)/4)) + (4+4)^4) \\
&:= 5 \times 5 + ((5-5/5)^{5/5+5} + 5/5) \\
&:= 6 \times (((6 \times 6/(6+6))^6) - (6 \times 6+6)) \\
&:= 7 + (7 \times 7 \times (77+7) - 7/7) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 + ((8+8)/8)) + 8) + 8) \\
&:= ((9+9+9) \times (9 \times (9+9) - 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4123 &:= 1 + ((1+1) \times (1+(1+(11+(1+1)^{11})))) \\
&:= 22 + ((2 \times (2^{22/2} + 2)) + 2/2) \\
&:= 3^3 + (3/3+3)^{3+3} \\
&:= 4 \times 4 + (44/4 + (4+4)^4) \\
&:= 5 \times 55 \times (5+5+5) - (5+5)/5 \\
&:= ((6/6+6+6) + 6) \times (6 \times 6 \times 6 + 6/6) \\
&:= 7 + 7 \times 7 \times (77+7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 + (88/8)) + 8) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4124 &:= (1+1) \times (1+(1+(1+(11+(1+1)^{11})))) \\
&:= 2 + ((2 \times (2^{22/2} + 2)) + 22) \\
&:= 3^3 + ((3/3+3)^{3+3} + 3/3) \\
&:= 44 + 4 \times (4 \times 4^4 - 4) \\
&:= 5^5 + ((5-5/5)^5 - 5 \times 5) \\
&:= 6 \times 666 + (((6+6)/6)^{6+6+6}) \\
&:= 7 + (7 \times 7 \times (77+7) + 7/7) \\
&:= 8 + (((88+8)/8) + 8 \times 8 \times 8 + 8) \\
&:= (9+9)/9 + (((9+9+9) \times (9 \times (9+9) - 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4125 &:= 11 \times (1+(11 \times (1+11 \times (1+1+1)))) \\
&:= 2 + (((2 \times (2^{22/2} + 2)) + 2/2) + 22) \\
&:= 33 \times (3-3/3+3)^3 \\
&:= 44 + (4 \times (4 \times 4^4 - 4) + 4/4) \\
&:= 5 \times 55 \times (5+5+5) \\
&:= 6 \times 6 + (((((6+6)/6)^{6+6}) - (6/6+6)) \\
&:= 7 + (7 \times 7 \times (77+7) + ((7+7)/7)) \\
&:= (8 \times 8 - (8/8+8)) \times (88/8+8 \times 8) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4126 &:= ((1+1)^{1+11}) + ((11-1) \times (1+1+1)) \\
&:= 22 + (2 \times ((2^{22/2} + 2) + 2)) \\
&:= 3 + ((3/3+3)^{3+3} + 3^3) \\
&:= 4 \times (4+4) + ((4+4)^4 - (4+4)/4) \\
&:= 5/5 + 5 \times 55 \times (5+5+5) \\
&:= 6 \times 6 + (((((6+6)/6)^{6+6}) - 6) \\
&:= ((77-7)/7) + 7 \times 7 \times (77+7) \\
&:= 8 + ((88+88)/8 + 8 \times 8 \times 8) \\
&:= 99 + (9 \times (9+9) \times (9+9) + 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4127 &:= 11 + ((1+1) \times (11+((1+1)^{11} - 1))) \\
&:= (2 \times (2^{22/2} + 2^{2+2})) - 2/2 \\
&:= 3 + (((3/3+3)^{3+3} + 3/3) + 3^3) \\
&:= 4 \times (4+4) + ((4+4)^4 - 4/4) \\
&:= (5+5)/5 + 5 \times 55 \times (5+5+5) \\
&:= 6 \times 6 + (((((6+6)/6)^{6+6}) - 6) + 6/6) \\
&:= 77/7 + 7 \times 7 \times (77+7) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 - 8/8) + 8) + 8) \\
&:= ((9-9 \times 9)/(9+9)) + ((9+9+9) \times (9 \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4128 &:= 11 + (((1+1) \times (11+(1+1)^{11})) - 1) \\
&:= 2 \times (2^{22/2} + 2^{2+2}) \\
&:= 3 + (33 \times (3-3/3+3)^3) \\
&:= 4 \times ((4 \times 4^4 + 4) + 4) \\
&:= 5 + (5 \times 55 \times (5+5+5) - ((5+5)/5)) \\
&:= 66 + (6 \times 666 + 66) \\
&:= (77+7)/7 + 7 \times 7 \times (77+7) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 + 8) + 8) \\
&:= ((9+9+9)/9) \times (9 \times (9 \times (9+9) - 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4129 &:= 11 + ((1+1) \times (11+(1+1)^{11})) \\
&:= 22 + (2^{2 \times (2+2+2)} + 22/2) \\
&:= 33 + (3/3+3)^{3+3} \\
&:= 44 + ((4+4)^4 - 44/4) \\
&:= 5 + (((5-5/5)^5 - 5 \times 5) + 5^5) \\
&:= 66 + ((6 \times 666 + 66) + 6/6) \\
&:= 7 + ((7 \times 7 \times (77+7) - 7/7) + 7) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 + 8/8) + 8) + 8) \\
&:= ((9+9+9) \times (9 \times (9+9) - 9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4130 &:= 1 + (11 + ((1+1) \times (11+(1+1)^{11}))) \\
&:= 2 + (2 \times (2^{22/2} + 2^{2+2})) \\
&:= 3/3 + ((3/3+3)^{3+3} + 33) \\
&:= 44 + ((4-44)/4 + (4+4)^4) \\
&:= 5 + 5 \times 55 \times (5+5+5) \\
&:= 6 \times 6 + (((((6+6)/6)^{6+6}) - ((6+6)/6)) \\
&:= 7 + (7 \times 7 \times (77+7) + 7) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 + ((8+8)/8)) + 8) + 8) + 8) \\
&:= (9/9+9) \times (((9+9)/9)^9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4131 &:= 11 + ((1+1) \times (1+(11+(1+1)^{11}))) \\
&:= (2^{2+2} + 2/2) \times (22^2 + 2)/2 \\
&:= 3 \times (3 \times (3+3)^3 + 3^{3+3}) \\
&:= 4 + ((4 \times (4+4) - 4/4) + (4+4)^4) \\
&:= 5 + (5 \times 55 \times (5+5+5) + 5/5) \\
&:= 6 \times 6 + (((((6+6)/6)^{6+6}) - 6/6) \\
&:= 7 + ((7 \times 7 \times (77+7) + 7/7) + 7) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 + (88/8)) + 8) + 8) \\
&:= (9+9+9) \times (9 \times (9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4132 &:= ((1+1)^{1+11}) + ((1+1+1) \times (1+11)) \\
&:= 2 \times ((2^{22/2} + 2^{2+2}) + 2) \\
&:= 3 + ((3/3+3)^{3+3} + 33) \\
&:= 4 + (4 \times (4+4) + (4+4)^4) \\
&:= 5 + (5 \times 55 \times (5+5+5) + ((5+5)/5)) \\
&:= 6 \times 6 + (((6+6)/6)^{6+6}) \\
&:= 7 + ((7 \times 7 \times (77+7) + ((7+7)/7)) + 7) \\
&:= 8 \times 8 \times 8 \times 8 + ((8 \times 8 + 8)/((8+8)/8)) \\
&:= 9/9 + ((9+9+9) \times (9 \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4133 &:= ((1+1)^{1+11}) + (111/(1+1+1)) \\
&:= 2 + ((2^{2+2} + 2/2) \times (22^2 + 2)/2) \\
&:= 3 + (((3/3+3)^{3+3} + 3/3) + 33) \\
&:= 4 + (((4+4)^4 - 44/4) + 44) \\
&:= 5^5 + ((5-5/5)^5 - (55/5+5)) \\
&:= 6 \times 6 + (((6+6)/6)^{6+6}) + 6/6) \\
&:= 7 + (7 \times 7 \times (77+7) + ((77-7)/7)) \\
&:= 8 \times 8 \times 8 \times 8 + 888/(8+8+8) \\
&:= (9+9)/9 + ((9+9+9) \times (9 \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4134 &:= 1 + (((1+1)^{1+11}) + (111/(1+1+1))) \\
&:= (2^{2+2+2} + 2)^2 - 222 \\
&:= 3 + (3 \times (3 \times (3+3)^3 + 3^{3+3})) \\
&:= 44 + ((4+4)^4 - ((4+4)/4 + 4)) \\
&:= 5^5 + ((5-5/5)^5 - (5+5+5)) \\
&:= 66 + (6 \times ((666+6) + 6)) \\
&:= 7 + (7 \times 7 \times (77+7) + (77/7)) \\
&:= 8 + (((88+88)/8 + 8 \times 8 \times 8 + 8) + 8) \\
&:= ((9+9+9)/9) + ((9+9+9) \times (9 \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4135 &:= ((1+1)^{1+11}) + ((1+1+1) \times (1+1+11)) \\
&:= (2 \times ((2^{22/2} - 2) + 22)) - 2/2 \\
&:= 3 + (((3/3+3)^{3+3} + 33) + 3) \\
&:= 44 + ((4+4)^4 - (4/4+4)) \\
&:= 5 + (5 \times 55 \times (5+5+5) + 5) \\
&:= 66 + ((6 \times ((666+6) + 6)) + 6/6) \\
&:= 7 + (7 \times 7 \times (77+7) + (77+7)/7) \\
&:= 888/8 + (8 \times (8 \times 8 \times 8 - 8) - 8) \\
&:= 999 + (((999+9)/(9+9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4136 &:= (1+1) \times ((1+1)^{11} + ((1+1) \times (11-1))) \\
&:= 2 \times ((2^{22/2} - 2) + 22) \\
&:= 33/3 + (33 \times (3-3/3+3)^3) \\
&:= 44 + ((4+4)^4 - 4) \\
&:= 55/5 + 5 \times 55 \times (5+5+5) \\
&:= 6 + (((6+6)/6)^{6+6}) - ((6+6)/6) + 6 \times 6) \\
&:= 7 + (((7 \times 7 \times (77+7) - 7/7) + 7) + 7) \\
&:= 88 \times (8 \times 8 - (8/8+8+8)) \\
&:= (9-9/9) \times (((9 \times 999 - 9)/(9+9)) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4137 &:= 1 + ((1+1) \times ((1+1)^{11} + ((1+1) \times (11-1)))) \\
&:= 2/2 + (2 \times ((2^{22/2} - 2) + 22)) \\
&:= 3 + ((3 \times (3 \times (3+3)^3 + 3^{3+3})) + 3) \\
&:= 44 + (((4+4)^4 - 4) + 4/4) \\
&:= 5^5 + ((5-5/5)^5 - ((55+5)/5)) \\
&:= 6 + (((6+6)/6)^{6+6}) - 6/6 + 6 \times 6) \\
&:= 7 + ((7 \times 7 \times (77+7) + 7) + 7) \\
&:= ((8/8+8 \times 8)^{(8+8)/8}) - 88 \\
&:= ((99+9)/9+9) \times ((99-9/9)+99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4138 &:= (1+1) \times (11 + (11 + ((1+1)^{11} - 1))) \\
&:= (2 \times (2^{22/2} + 22)) - 2 \\
&:= 3 \times 3 + ((3/3+3)^{3+3} + 33) \\
&:= 44 + ((4+4)^4 - (4+4)/4) \\
&:= 5^5 + ((5-5/5)^5 - 55/5) \\
&:= 6 + (((6+6)/6)^{6+6}) + 6 \times 6) \\
&:= 7 + (((7 \times 7 \times (77+7) + 7/7) + 7) + 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - (88+88)/8 \\
&:= 9 + (((9+9+9) \times (9 \times (9+9) - 9)) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4139 &:= ((1+1) \times (11 + (11 + (1+1)^{11}))) - 1 \\
&:= (2 \times (2^{22/2} + 22)) - 2/2 \\
&:= 3 + ((33 \times (3-3/3+3)^3) + 33/3) \\
&:= 44 + ((4+4)^4 - 4/4) \\
&:= 5^5 + ((5-5/5)^5 - (5+5)) \\
&:= 66 \times 66 - (6 \times 6 \times 6 + 6/6) \\
&:= 7 + (((7 \times 7 \times (77+7) + ((7+7)/7)) + 7) + 7) \\
&:= 8 + (((8 \times 8 \times 8 + 8) + 8) + 8) + 8) \\
&:= 9 + ((9/9+9) \times (((9+9)/9)^9 - 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4140 &:= (1+1) \times (11 + (11 + (1+1)^{11})) \\
&:= 2 \times (2^{22/2} + 22) \\
&:= 3 \times ((3 \times (3+3)^3 + 3^{3+3}) + 3) \\
&:= 44 + (4+4)^4 \\
&:= (5+5+5) \times (5 \times 55 + 5/5) \\
&:= 66 \times 66 - 6 \times 6 \times 6 \\
&:= (77+7)/7 \times (7 \times 7 \times 7 + ((7+7)/7)) \\
&:= 8 \times 8 \times 8 + 88/((8+8)/8) \\
&:= 9 + ((9+9+9) \times (9 \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4141 &:= 1 + ((1+1) \times (11 + (11 + (1+1)^{11}))) \\
&:= 2/2 + (2 \times (2^{22/2} + 22)) \\
&:= 3 + (((3/3+3)^{3+3} + 3 \times 3) + 33) \\
&:= 44 + ((4+4)^4 + 4/4) \\
&:= 5 + (5 \times 55 \times (5+5+5) + (55/5)) \\
&:= 6/6 + (66 \times 66 - 6 \times 6 \times 6) \\
&:= 7 + ((7 \times 7 \times (77+7) + (77/7)) + 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - (88/8+8) \\
&:= 9 + (((9+9+9) \times (9 \times (9+9) - 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4142 &:= (1+1) \times (1 + (11 + (11 + (1+1)^{11}))) \\
&:= 2 + (2 \times (2^{22/2} + 22)) \\
&:= 33/3 + (3 \times (3 \times (3+3)^3 + 3^{3+3})) \\
&:= 44 + ((4+4)^4 + (4+4)/4) \\
&:= 5^5 + ((5-5/5)^5 - ((5+5)/5+5)) \\
&:= (6+6)/6 + (66 \times 66 - 6 \times 6 \times 6) \\
&:= 7 + ((7 \times 7 \times (77+7) + (77+7)/7) + 7) \\
&:= (8-88)/8 + (8 \times (8 \times 8 \times 8) - 8) \\
&:= 99/9 + ((9+9+9) \times (9 \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4143 &:= ((1+111) \times (111/(1+1+1))) - 1 \\
&:= 2 + ((2 \times (2^{22/2} + 22)) + 2/2) \\
&:= 3333 + (3^3 \times (3^3 + 3)) \\
&:= 4 + (((4+4)^4 - 4/4) + 44) \\
&:= 5^5 + ((5-5/5)^5 - (5/5+5)) \\
&:= 666/6 + 6 \times (666+6) \\
&:= 77 + ((7 \times (7 \times (77+7) - 7)) - 7/7) \\
&:= 888/8 + 8 \times (8 \times 8 \times 8 - 8) \\
&:= (99+9)/9 + ((9+9+9) \times (9 \times (9+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4144 &:= (1+111) \times (111/(1+1+1)) \\
&:= 2 \times ((2^{22/2} + 22) + 2) \\
&:= 3 \times 3^3 + ((3/3+3)^{3+3} - 33) \\
&:= 4 + ((4+4)^4 + 44) \\
&:= 5^5 + ((5-5/5)^5 - 5) \\
&:= 6 + (((6+6)/6)^{6+6}) + 6 \times 6) + 6) \\
&:= 77 + (7 \times (7 \times (77+7) - 7)) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - 8 - 8 \\
&:= ((999+9)/9) \times (((9/9+9+9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4145 &:= 1 + ((1+111) \times (111/(1+1+1))) \\
&:= 2/2 + (2 \times (2^{22/2} + 22) + 2) \\
&:= (3 \times ((33 \times (3 \times 3 + 33)) - 3)) - (3/3+3) \\
&:= 4 + (((4+4)^4 + 44) + 4/4) \\
&:= (5 \times (55 \times (5+5+5) + 5)) - 5 \\
&:= 6 + (66 \times 66 - (6 \times 6 \times 6 + 6/6)) \\
&:= 7 \times 7 + ((7/7+7)^{77/7-7}) \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 + 8) - (8+8)) \\
&:= ((9 \times 9 + 9)/(9+9)) \times ((9 \times 9 + 9 + 99) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4146 &:= 1 + (1 + ((1+111) \times (111/(1+1+1)))) \\
&:= 2 + (2 \times ((2^{22/2} + 22) + 2)) \\
&:= (3 \times ((33 \times (3 \times 3 + 33)) - 3)) - 3 \\
&:= 4 + (((4+4)^4 + (4+4)/4) + 44) \\
&:= 55 + ((5-5/5)^{5+5} - 5) \\
&:= 6 + (66 \times 66 - 6 \times 6 \times 6) \\
&:= 7/7 + (((7/7+7)^{77/7-7}) + 7 \times 7) \\
&:= (8+8)/8 + (8 \times (8 \times 8 \times 8 + 8) - (8+8)) \\
&:= 9 + (((99+9)/9+9) \times ((99-9/9)+99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4147 &:= 11 \times (11 + ((1+1+1) \times (1+11^{1+1}))) \\
&:= 2 + ((2 \times (2^{22/2} + 22) + 2)) + 2/2) \\
&:= 3^3 + (((3/3+3)^{3+3} - 3) + 3^3) \\
&:= 4 + (((4+4)^4 - 4/4) + 44) + 4) \\
&:= 5^5 + ((5-5/5)^5 - ((5+5)/5)) \\
&:= 6 + ((66 \times 66 - 6 \times 6 \times 6) + 6/6) \\
&:= (7 \times (7 \times (77+7) + 7)) - (77/7+7) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - (88+8+8)/8 \\
&:= 9 + (((9+9+9) \times (9 \times (9+9) - 9)) - ((9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4148 &:= (1 + 11^{1+1}) \times (1 + 11 \times (1 + 1 + 1)) \\
&:= 2 \times ((2^{22/2} + 22) + 2) \\
&:= (3/3 + 33) \times ((3^{3+3} + 3)/(3 + 3)) \\
&:= 4 + (((4 + 4)^4 + 44) + 4) \\
&:= 5^5 + ((5 - 5/5)^5 - 5/5) \\
&:= (66 - 6 + 6/6) \times (((6 + 6)/6) + 66) \\
&:= 7 + (((7 \times 7 \times (77 + 7) + (77/7)) + 7) + 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - (88 + 8)/8 \\
&:= ((9 - 9/9) + 9) \times (9 \times (9 + 9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4149 &:= 1 + ((1 + 11^{1+1}) \times (1 + 11 \times (1 + 1 + 1))) \\
&:= 2/2 + (2 \times ((2^{22/2} + 22) + 2) + 2) \\
&:= 3 \times ((33 \times (3 \times 3 + 33)) - 3) \\
&:= (4 + 4)^4 + (4^4 - 44)/4 \\
&:= 5^5 + (5 - 5/5)^5 \\
&:= 6 + (6 \times (666 + 6) + 666/6) \\
&:= ((7 + 7)/7 + 7) \times (7 \times 77 - (7/7 + 77)) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - 88/8 \\
&:= 9 + (((9 + 9 + 9) \times (9 \times (9 + 9) - 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4150 &:= (1 + 1) \times ((1 + 1)^{11} + (1 + 1 + 1)^{1+1+1}) \\
&:= 2 + (2 \times ((2^{22/2} + 22) + 2) + 2) \\
&:= 3^3 + ((3/3 + 3)^{3+3} + 3^3) \\
&:= 44 + ((44 - 4)/4 + (4 + 4)^4) \\
&:= 5 \times (55 \times (5 + 5 + 5) + 5) \\
&:= 66 + (((6 + 6)/6)^{6+6} - (6 + 6)) \\
&:= (7/7 + 7 \times 7) \times (77 - 7/7 + 7) \\
&:= (8 - 88)/8 + 8 \times (8 \times 8 \times 8 + 8) \\
&:= ((9 - 9/9) \times (((9 + 9)/9)^9 + 9)) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4151 &:= ((1 + 1)^{1+11}) + (111 - 1)/(1 + 1) \\
&:= 22/2 + (2 \times (2^{22/2} + 22)) \\
&:= 3 + (3/3 + 33) \times (3^{3+3} + 3)/(3 + 3) \\
&:= 44 + (44/4 + (4 + 4)^4) \\
&:= 55 + (5 - 5/5)^{5/5+5} \\
&:= 66 + (((6 + 6)/6)^{6+6} - (66/6)) \\
&:= (7 \times (7 \times (77 + 7) + 7)) - (7 + 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - (8/8 + 8) \\
&:= (9 - (9 + 9)/9) \times (((9 + 9)/9)^9) + 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4152 &:= ((1 + 1)^{1+11}) + (1 + 111)/(1 + 1) \\
&:= 2 \times (((2^{22/2} + 22) + 2) + 2) \\
&:= 3 + (3 \times ((33 \times (3 \times 3 + 33)) - 3)) \\
&:= (4 \times 4 \times (4^4 + 4)) - 4 - 4 \\
&:= 5 + (((5 - 5/5)^5 - ((5 + 5)/5)) + 5^5) \\
&:= 6 + ((66 \times 66 - 6 \times 6 \times 6) + 6) \\
&:= 7 + (((7/7 + 7)^{77/7-7} + 7 \times 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - 8 \\
&:= (9 - 9/9) \times (((9 + 9)/9)^9) - ((9 + 9)/9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4153 &:= 1 + (((1 + 1)^{1+11}) + (1 + 111)/(1 + 1)) \\
&:= 2 + (2 \times (2^{22/2} + 22)) + 22/2 \\
&:= 3 + (((3/3 + 3)^{3+3} + 3^3) + 3^3) \\
&:= 4 + ((4^4 - 44)/4 + (4 + 4)^4) \\
&:= 5 + (((5 - 5/5)^5 - 5/5) + 5^5) \\
&:= ((66 - 6/6)^{(6+6)/6}) - (66 + 6) \\
&:= (7 \times (7 \times (77 + 7) + 7)) - (77 + 7)/7 \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 + 8) - 8) \\
&:= 9 + (((999 + 9)/9) \times ((9/9 + 9 + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4154 &:= 1 + (1 + (((1 + 1)^{1+11}) + (1 + 111)/(1 + 1))) \\
&:= (2 \times 22)^2 + (2222 - (2 + 2)) \\
&:= (3 \times (33 \times (3 \times 3 + 33))) - (3/3 + 3) \\
&:= (4 + 4)^4 + ((4^4 - 4 - 4)/4 - 4) \\
&:= 5 + ((5 - 5/5)^5 + 5^5) \\
&:= (((6 + 6)/6)^6 \times (66 - 6/6)) - 6 \\
&:= (7 \times (7 \times (77 + 7) + 7)) - 77/7 \\
&:= (8 + 8)/8 + (8 \times (8 \times 8 \times 8 + 8) - 8) \\
&:= (((9 + 9)/9)^{99/9}) + (9 \times (9 \times (9 + 9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4155 &:= 11 + ((1 + 111) \times (111/(1 + 1 + 1))) \\
&:= 22/2 + (2 \times ((2^{22/2} + 22) + 2)) \\
&:= (3 \times (33 \times (3 \times 3 + 33))) - 3 \\
&:= (4 + 4)^4 + (((4^4 - 4)/4) - 4) \\
&:= 5 + (5 \times (55 \times (5 + 5 + 5) + 5)) \\
&:= 66 + (((6 + 6)/6)^{6+6} - (6/6 + 6)) \\
&:= ((7 - 77)/7) + (7 \times (7 \times (77 + 7) + 7)) \\
&:= 88/8 + (8 \times (8 \times 8 \times 8 + 8) - (8 + 8)) \\
&:= 9 \times 99 + ((99 \times 99 - 9)/(9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4156 &:= (1 + 1) \times ((1 + 1)^{11} + ((11 - 1) \times (1 + 1 + 1))) \\
&:= (2 \times 22)^2 + (2222 - 2) \\
&:= 3^3 + ((3/3 + 3)^{3+3} + 33) \\
&:= (4 \times 4 \times (4^4 + 4)) - 4 \\
&:= 5 + ((5 - 5/5)^{5/5+5} + 55) \\
&:= 66 + (((6 + 6)/6)^{6+6} - 6) \\
&:= (7 \times (7 \times (77 + 7) + 7)) - ((7 + 7)/7 + 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - (8/(8 + 8)/8) \\
&:= ((9 + 9)/9) \times ((99 \times ((99 + 9)/9 + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4157 &:= ((1 + 1)^{1+11}) + ((1 + 11^{1+1})/(1 + 1)) \\
&:= (2 \times 22)^2 + (2222 - 2/2) \\
&:= (3 \times (33 \times (3 \times 3 + 33))) - 3/3 \\
&:= 4/4 + ((4 \times 4 \times (4^4 + 4)) - 4) \\
&:= ((5 + 5)/5)^5 + 5 \times 55 \times (5 + 5 + 5) \\
&:= 66 + (((6 + 6)/6)^{6+6} - 6) + 6/6 \\
&:= (7 \times (7 \times (77 + 7) + 7)) - (7/7 + 7) \\
&:= 8 + (8 \times (8 \times 8 \times 8 + 8) - (88/8)) \\
&:= 9 + (((9 - 9/9) + 9) \times (9 \times (9 + 9 + 9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4158 &:= 1 + (((1 + 1)^{1+11}) + ((1 + 11^{1+1})/(1 + 1))) \\
&:= (2 \times 22)^2 + 2222 \\
&:= 3 \times (33 \times (3 \times 3 + 33)) \\
&:= (4 + 4)^4 + (4^4 - 4 - 4)/4 \\
&:= 5 + (((5 - 5/5)^5 - 5/5) + 5^5) + 5 \\
&:= 6 \times (((6 \times 6)/(6 + 6))^6) - 6 \times 6 \\
&:= (7 \times (7 \times (77 + 7) + 7)) - 7 \\
&:= 8 \times (8 \times 8 \times 8 + 8) - (8 + 8)/8 \\
&:= 99 \times ((99/(9 + 9 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4159 &:= 11 + ((1 + 11^{1+1}) \times (1 + 11 \times (1 + 1 + 1))) \\
&:= 2/2 + ((2 \times 22)^2 + 2222) \\
&:= 3/3 + (3 \times (33 \times (3 \times 3 + 33))) \\
&:= (4 + 4)^4 + ((4^4 - 4)/4) \\
&:= 5 + (((5 - 5/5)^5 + 5^5) + 5) \\
&:= ((66 - 6/6)^{(6+6)/6}) - 66 \\
&:= 7/7 + ((7 \times (7 \times (77 + 7) + 7)) - 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8) - 8/8 \\
&:= ((9 - 9/9) \times (((9 + 9)/9)^9 + 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4160 &:= (1 + 1) \times ((1 + 1)^{11} + ((11 \times (1 + 1 + 1)) - 1)) \\
&:= 2 + ((2 \times 22)^2 + 2222) \\
&:= ((3/3 + 3)^3) + (3/3 + 3)^{3+3} \\
&:= 4 \times 4 \times (4^4 + 4) \\
&:= ((5 + 5)/5)^5 \times (5 \times 5 \times 5 + 5) \\
&:= ((6 + 6)/6)^6 \times (66 - 6/6) \\
&:= (7 + 7)/7 + ((7 \times (7 \times (77 + 7) + 7)) - 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8) \\
&:= (9 - 9/9) \times (((9 + 9)/9)^9) - 9/9 + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4161 &:= ((1 + 1) \times ((1 + 1)^{11} + (11 \times (1 + 1 + 1)))) - 1 \\
&:= (((2 \times 2 \times 22 + 2)^2) + 222)/2 \\
&:= 3 + (3 \times (33 \times (3 \times 3 + 33))) \\
&:= 4/4 + (4 \times 4 \times (4^4 + 4)) \\
&:= 5 + (((5 - 5/5)^{5/5+5} + 55) + 5) \\
&:= 66 + (((6 + 6)/6)^{6+6} - 6/6) \\
&:= 7 + ((7 \times (7 \times (77 + 7) + 7)) - (77/7)) \\
&:= 8/8 + 8 \times (8 \times 8 \times 8 + 8) \\
&:= (9/9 + 9 + 9) \times ((999/9 + 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4162 &:= (1 + 1) \times ((1 + 1)^{11} + (11 \times (1 + 1 + 1))) \\
&:= 22 + (2 \times (2^{22/2} + 22)) \\
&:= 33 + ((3/3 + 3)^{3+3} + 33) \\
&:= (4 + 4)^4 + ((4^4 + 4 + 4)/4) \\
&:= 5 + (5 \times 55 \times (5 + 5 + 5) + ((5 + 5)/5)^5) \\
&:= 66 + (((6 + 6)/6)^{6+6}) \\
&:= (7 \times (7 \times (77 + 7) + 7)) - (7 + 7 + 7)/7 \\
&:= (8 + 8)/8 + 8 \times (8 \times 8 \times 8 + 8) \\
&:= 9 \times ((9 + 9)/9)^9 - ((9 \times 9 \times 99 + 9)/(9 + 9))
\end{aligned}$$

- 4163 := $1 + ((1 + 1) \times ((1 + 1)^{11} + (11 \times (1 + 1 + 1))))$
:= $2 + (((2 \times 2 \times 22 + 2)^2) + 222)/2$
:= $3 + ((3/3 + 3)^{3+3} + (3/3 + 3)^3)$
:= $4 + (((4^4 - 4)/4) + (4 + 4)^4)$
:= $5 \times 55 + ((5/5 + 5)^5 / ((5 + 5)/5))$
:= $66 + (((6 + 6)/6)^{6+6} + 6/6)$
:= $(7 \times (7 \times (77 + 7) + 7)) - (7 + 7)/7$
:= $88/8 + (8 \times (8 \times 8 \times 8 + 8) - 8)$
:= $9 \times ((9 + 9)/9)^9 + ((9 - 9 \times 9 \times 99)/(9 + 9))$
- 4164 := $(1 + 1) \times (1 + ((1 + 1)^{11} + (11 \times (1 + 1 + 1))))$
:= $2 \times (((2 \times (22 + 2))^2) - 222)$
:= $3 + ((3 \times (33 \times (3 \times 3 + 33))) + 3)$
:= $4 + (4 \times 4 \times (4^4 + 4))$
:= $5 + (((5 - 5/5)^5 + 5^5) + 5) + 5$
:= $6 + (6 \times (((6 \times 6 / (6 + 6))^6) - 6 \times 6))$
:= $(7 \times (7 \times (77 + 7) + 7)) - 7/7$
:= $(8 / ((8 + 8)/8)) + 8 \times (8 \times 8 \times 8 + 8)$
:= $(9 + 9 + 9)/9 \times (9 \times (9 \times (9 + 9) - 9) + (99/9))$
- 4165 := $1 + ((1 + 1) \times (1 + ((1 + 1)^{11} + (11 \times (1 + 1 + 1))))$
:= $2/2 + ((2 \times 22 + 2)^2 + 2^{22/2})$
:= $3 + (((3/3 + 3)^{3+3} + 33) + 33)$
:= $4 + ((4 \times 4 \times (4^4 + 4)) + 4/4)$
:= $5 + (((5 + 5)/5)^5 \times (5 \times 5 \times 5 + 5))$
:= $6 + (((66 - 6/6)^{(6+6)/6}) - 66)$
:= $7 \times (7 \times (77 + 7) + 7)$
:= $8 + ((8 \times (8 \times 8 \times 8 + 8) - (88/8)) + 8)$
:= $((9 - 9/9) + 9) \times (9 \times (9 + 9 + 9) + ((9 + 9)/9))$
- 4166 := $(1 + 1) \times (1 + (1 + ((1 + 1)^{11} + (11 \times (1 + 1 + 1))))$
:= $2 + ((2 \times 22 + 2)^2 + 2^{22/2})$
:= $(3 \times ((33 \times (3 \times 3 + 33)) + 3)) - 3/3$
:= $4 + (((4^4 + 4 + 4)/4) + (4 + 4)^4)$
:= $5 + (((5 - 5/5)^{5/5+5} + 55) + 5) + 5$
:= $6 + (((6 + 6)/6)^6 \times (66 - 6/6))$
:= $7/7 + (7 \times (7 \times (77 + 7) + 7))$
:= $8 + (8 \times (8 \times 8 \times 8 + 8) - ((8 + 8)/8))$
:= $9999 + ((9 \times (9 \times (9 - 9 \times 9))) - 9/9)$
- 4167 := $((1 + 1)^{1+11}) + (((1 + 11)^{1+1} / (1 + 1)) - 1)$
:= $(2/2 + 2)^2 \times ((22^2 - 22) + 2/2)$
:= $3 \times ((33 \times (3 \times 3 + 33)) + 3)$
:= $4 + (((4^4 - 4)/4) + (4 + 4)^4) + 4$
:= $5^5 + ((5^5 + 5/5) / (5 - (5 + 5)/5))$
:= $6 + (((6 + 6)/6)^{6+6} - 6/6) + 66$
:= $(7 + 7)/7 + (7 \times (7 \times (77 + 7) + 7))$
:= $8 + (8 \times (8 \times 8 \times 8 + 8) - 8/8)$
:= $9999 + (9 \times (9 \times (9 - 9 \times 9)))$
- 4168 := $(1 + 1) \times ((1 + 1)^{11} + ((1 + 1 + 1) \times (1 + 11)))$
:= $2 \times ((2 \times (22 - 2))^2 + 22^2)$
:= $(3 \times (3^3 - 3)) + (3/3 + 3)^{3+3}$
:= $4 + ((4 \times 4 \times (4^4 + 4)) + 4)$
:= $5 + (((5/5 + 5)^5 / ((5 + 5)/5)) + 5 \times 55)$
:= $6 + (((6 + 6)/6)^{6+6} + 66)$
:= $(7/7 + 7) \times (7 \times 77 - (77/7 + 7))$
:= $8 + 8 \times (8 \times 8 \times 8 + 8)$
:= $(9 - 9/9) \times (((9 + 9)/9)^9 + 9)$
- 4169 := $1 + ((1 + 1) \times ((1 + 1)^{11} + ((1 + 1 + 1) \times (1 + 11))))$
:= $2/2 + (2 \times ((2 \times (22 - 2))^2 + 22^2))$
:= $33/3 + (3 \times (33 \times (3 \times 3 + 33)))$
:= $4 + (((4 \times 4 \times (4^4 + 4)) + 4/4) + 4)$
:= $5 \times 5 + (((5 - 5/5)^5 - 5) + 5^5)$
:= $6 + (((6 + 6)/6)^{6+6} + 66) + 6/6$
:= $77/7 + ((7 \times (7 \times (77 + 7) + 7)) - 7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 8) + 8/8)$
:= $9/9 + ((9 - 9/9) \times (((9 + 9)/9)^9 + 9))$
- 4170 := $(1 + 1) \times ((1 + 1)^{11} + (111/(1 + 1 + 1)))$
:= $2 + (2 \times ((2 \times (22 - 2))^2 + 22^2))$
:= $3 + (3 \times ((33 \times (3 \times 3 + 33)) + 3))$
:= $(4 + 4)^4 + (((4^4 - 4) + 44)/4)$
:= $5^5 + (55 \times (5 \times 5 - (5/5 + 5)))$
:= $(6 \times ((666 - 6) + 6 \times 6)) - 6$
:= $7 + ((7 \times (7 \times (77 + 7) + 7)) - ((7 + 7)/7))$
:= $8 + (8 \times (8 \times 8 \times 8 + 8) + ((8 + 8)/8))$
:= $(9 + 9)/9 + ((9 - 9/9) \times (((9 + 9)/9)^9 + 9))$
- 4171 := $1 + ((1 + 1) \times ((1 + 1)^{11} + (111/(1 + 1 + 1))))$
:= $(22/2)^2 + (2 \times (2 \times 22 + 2/2)^2)$
:= $3 + (3/3 + 3)^{3+3} + 3 \times (3^3 - 3)$
:= $44/4 + (4 \times 4 \times (4^4 + 4))$
:= $55 + ((5 - 5/5) \times ((5 - 5/5)^5 + 5))$
:= $6/6 + ((6 \times ((666 - 6) + 6 \times 6)) - 6)$
:= $7 + ((7 \times (7 \times (77 + 7) + 7)) - 7/7)$
:= $88/8 + 8 \times (8 \times 8 \times 8 + 8)$
:= $((9 \times 9 - 99/9)^{(9+9)/9}) - 9 \times 9 \times 9$
- 4172 := $(1 + 1) \times (((1 + 1 + 11)^{1+1+1}) - 111)$
:= $2 \times (((2 \times (22 - 2))^2 + 22^2) + 2)$
:= $(33/3 + 3) \times (3 \times 3 \times 33 + 3/3)$
:= $(4 \times (4 \times (4^4 + 4) + 4)) - 4$
:= $5 + (((5^5 + 5/5) / (5 - (5 + 5)/5)) + 5^5)$
:= $6 + (((6 + 6)/6)^6 \times (66 - 6/6)) + 6$
:= $7 + (7 \times (7 \times (77 + 7) + 7))$
:= $((88 + 8)/8) + 8 \times (8 \times 8 \times 8 + 8)$
:= $9 \times 99 + ((9 \times 9 \times 9 \times 9 + 9/9) / ((9 + 9)/9))$
- 4173 := $1 + ((1 + 1) \times (((1 + 1 + 11)^{1+1+1}) - 111))$
:= $(22/2)^2 + (2 \times (2^{22/2} - 22))$
:= $((3 + 3) \times (3^{3+3} - 33)) - 3$
:= $(4 + 4)^4 + ((4 - 4/4)^4 - 4)$
:= $5 \times 5 + (((5 - 5/5)^5 - 5/5) + 5^5)$
:= $66 + (((6 + 6)/6)^{6+6} + (66/6))$
:= $7 + ((7 \times (7 \times (77 + 7) + 7)) + 7/7)$
:= $88 + (8 \times 8 \times 8 \times 8 - (88/8))$
:= $((99 - 9/9) + 9) \times (((99 + 9)/9 + 9) + 9)$
- 4174 := $(1 + 1) \times (1 + (((1 + 1 + 11)^{1+1+1}) - 111))$
:= $(2 \times (2^{22/2} + 2 \times (22 - 2))) - 2$
:= $3 \times 3^3 + ((3/3 + 3)^{3+3} - 3)$
:= $(4 \times (4 \times (4^4 + 4) + 4)) - (4 + 4)/4$
:= $5 \times 5 + ((5 - 5/5)^5 + 5^5)$
:= $6 + (((6 + 6)/6)^{6+6} + 66) + 6$
:= $7 + ((7 \times (7 \times (77 + 7) + 7)) + ((7 + 7)/7))$
:= $8 + ((8 \times (8 \times 8 \times 8 + 8) - ((8 + 8)/8)) + 8)$
:= $((99/9) \times ((9 + 9)/9)^9) - 9 \times 9 \times (9 + 9)$
- 4175 := $((1 + 1)^{1+11}) + ((11 - 1 - 1)^{1+1} - (1 + 1))$
:= $2^{2 \times (2+2+2)} + ((2/2 + 2)^{2+2} - 2)$
:= $((3 + 3) \times (3^{3+3} - 33)) - 3/3$
:= $(4 \times (4 \times (4^4 + 4) + 4)) - 4/4$
:= $5 \times ((55 \times (5 + 5 + 5) + 5) + 5)$
:= $(6 \times ((666 - 6) + 6 \times 6)) - 6/6$
:= $((77 - 7)/7) + (7 \times (7 \times (77 + 7) + 7))$
:= $8 + ((8 \times (8 \times 8 \times 8 + 8) - 8/8) + 8)$
:= $((9 + 9) \times (9 \times (9 + 9 + 9) - (99/9))) - 9/9$
- 4176 := $((1 + 1)^{1+11}) + ((11 - 1 - 1)^{1+1} - 1)$
:= $2 \times (2^{22/2} + 2 \times (22 - 2))$
:= $(3 + 3) \times (3^{3+3} - 33)$
:= $4 \times (4 \times (4^4 + 4) + 4)$
:= $5 \times 5 + ((5 - 5/5)^{5/5+5} + 55)$
:= $6 \times ((666 - 6) + 6 \times 6)$
:= $77/7 + (7 \times (7 \times (77 + 7) + 7))$
:= $8 + (8 \times (8 \times 8 \times 8 + 8) + 8)$
:= $(9 + 9) \times (9 \times (9 + 9 + 9) - (99/9))$
- 4177 := $((1 + 1)^{1+11}) + (11 - 1 - 1)^{1+1}$
:= $2^{2 \times (2+2+2)} + (2/2 + 2)^{2+2}$
:= $3 \times 3^3 + (3/3 + 3)^{3+3}$
:= $(4 + 4)^4 + (4 - 4/4)^4$
:= $5^5 + ((5555 + 5)/5 - (55 + 5))$
:= $6/6 + (6 \times ((666 - 6) + 6 \times 6))$
:= $(77 + 7)/7 + (7 \times (7 \times (77 + 7) + 7))$
:= $8 + ((8 \times (8 \times 8 \times 8 + 8) + 8/8) + 8)$
:= $9 + ((9 - 9/9) \times (((9 + 9)/9)^9 + 9))$

$$\begin{aligned}
\blacktriangleright 4178 &:= 1 + (((1+1)^{1+1}) + (11-1-1)^{1+1}) \\
&:= 2 + (2 \times (2^{22/2} + 2 \times (22-2))) \\
&:= 3 + (((3+3) \times (3^{3+3} - 33)) - 3/3) \\
&:= 4/4 + ((4-4/4)^4 + (4+4)^4) \\
&:= 5 + (((5-5/5)^5 - 5/5) + 5^5) + 5 \times 5 \\
&:= (6+6)/6 + (6 \times ((666-6) + 6 \times 6)) \\
&:= 7 + (((7 \times (7 \times (77+7) + 7)) - 7/7) + 7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8)) + ((8+8)/8) + 8) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9 + 9)) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4179 &:= (((1+111)^{1+1}) - 1)/(1+1+1) - 1 - 1 \\
&:= (2/2 - 22) \times ((2 - (22-2)^2)/2) \\
&:= 3 + ((3+3) \times (3^{3+3} - 33)) \\
&:= 4 + ((4 \times (4 \times (4^4 + 4) + 4)) - 4/4) \\
&:= 5 + (((5-5/5)^5 + 5 \times 5) + 5^5) \\
&:= 666/6 + (6 \times ((666+6) + 6)) \\
&:= 7 + ((7 \times (7 \times (77+7) + 7)) + 7) \\
&:= 8 + (8 \times (8 \times 8 \times 8 + 8)) + (88/8) \\
&:= 99/9 + ((9-9/9) \times ((9+9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4180 &:= (111-1) \times (1 + (111/(1+1+1))) \\
&:= 2 \times (2^{22/2} - 2) + 2 \times 22 \\
&:= 3 + ((3/3+3)^{3+3} + 3 \times 3^3) \\
&:= 4 + (4 \times (4 \times (4^4 + 4) + 4)) \\
&:= 55 + 5 \times 55 \times (5+5+5) \\
&:= 6 + (((((6+6)/6)^{6+6}) + 66) + 6) + 6 \\
&:= (7/7 - 77) \times (7/7 - (7 \times 7 + 7)) \\
&:= 8 + (8 \times (8 \times 8 \times 8 + 8)) + ((88+8)/8) \\
&:= 99/9 \times ((9/9+9+9) \times (99/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4181 &:= (((1+111)^{1+1}) - 1)/(1+1+1) \\
&:= ((2^{2+2+2} + 2/2)^2) - (2 \times 22) \\
&:= (33/3 + 3 + 3)^3 - (3^{3+3} + 3) \\
&:= 4 + ((4-4/4)^4 + (4+4)^4) \\
&:= 5^5 + (5555/5 - 55) \\
&:= 6 + ((6 \times ((666-6) + 6 \times 6)) - 6/6) \\
&:= 7 + (((7 \times (7 \times (77+7) + 7)) + ((7+7)/7)) + 7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - (88/8)) + 88) \\
&:= 9 \times 9 + ((9/9+9 \times 9) \times ((9 \times 99+9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4182 &:= 1 + (((1+111)^{1+1}) - 1)/(1+1+1) \\
&:= (2 \times (2^{22/2} + 2 \times 22)) - 2 \\
&:= 3 + (((3+3) \times (3^{3+3} - 33)) + 3) \\
&:= 4 + (((4-4/4)^4 + (4+4)^4) + 4/4) \\
&:= 5^5 + ((5555+5)/5 - 55) \\
&:= 6 + (6 \times ((666-6) + 6 \times 6)) \\
&:= 77 + (7 \times 7 \times (77+7) - (77/7)) \\
&:= 88 + (8 \times 8 \times 8 \times 8 - ((8+8)/8)) \\
&:= (9/9 + 9 \times 9) \times (9 \times (9+9) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4183 &:= 1 + (1 + (((1+111)^{1+1}) - 1)/(1+1+1)) \\
&:= (2 \times (2^{22/2} + 2 \times 22)) - 2/2 \\
&:= 3 + (((3/3+3)^{3+3} + 3 \times 3^3) + 3) \\
&:= 44 + (((4+4)^4 - 4/4) + 44) \\
&:= 5^5 + ((5555+5+5)/5 - 55) \\
&:= 6 + ((6 \times ((666-6) + 6 \times 6)) + 6/6) \\
&:= 7 + ((7 \times (7 \times (77+7) + 7)) + (77/7)) \\
&:= 88 + (8 \times 8 \times 8 \times 8 - 8/8) \\
&:= 9 + (((99/9) \times ((9+9)/9)^9) - 9 \times 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4184 &:= (1+1) \times ((1+1)^{11} + ((1+1) \times (11+11))) \\
&:= 2 \times (2^{22/2} + 2 \times 22) \\
&:= (33/3 + 3 + 3)^3 - 3^{3+3} \\
&:= 44 + ((4+4)^4 + 44) \\
&:= 5 + (((5-5/5)^5 + 5 \times 5) + 5^5) + 5 \\
&:= 6 + ((6 \times ((666-6) + 6 \times 6)) + ((6+6)/6)) \\
&:= (77 \times (7 \times 7 + 7)) - ((7+7)/7)^7 \\
&:= 88 + 8 \times 8 \times 8 \times 8 \\
&:= (9-9/9) \times (((9+9)/9)^9) + (99/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4185 &:= 111 + ((1+1) \times ((1+1)^{11} - 11)) \\
&:= 2/2 + (2 \times (2^{22/2} + 2 \times 22)) \\
&:= 3 \times ((3 \times 3 + 3)^3 - 333) \\
&:= 4 + (((4-4/4)^4 + (4+4)^4) + 4) \\
&:= 5 + (5 \times 55 \times (5+5+5) + 55) \\
&:= 6 + ((6 \times ((666+6) + 6)) + 666/6) \\
&:= 77 + (7 \times 7 \times (77+7) - (7/7+7)) \\
&:= 8/8 + (8 \times 8 \times 8 \times 8 + 88) \\
&:= (9 \times 9 - 9)^{(9+9)/9} - 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4186 &:= 1 + (111 + ((1+1) \times ((1+1)^{11} - 11))) \\
&:= 2 + (2 \times (2^{22/2} + 2 \times 22)) \\
&:= (3 \times (3^3 + 3)) + (3/3 + 3)^{3+3} \\
&:= 4444 - ((4+4)/4 + 4^4) \\
&:= 5 + ((5555/5 - 55) + 5^5) \\
&:= 6 + ((((((6+6)/6)^{6+6}) + 66) + 6) + 6) + 6 \\
&:= 77 + (7 \times 7 \times (77+7) - 7) \\
&:= 88 + (8 \times 8 \times 8 \times 8 + ((8+8)/8)) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9 + 9)) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4187 &:= 111 + ((1+1) \times (1 + (1+1)^{11} - 11)) \\
&:= (2 \times ((2 \times 22 + 2)^2 - 22)) - 2/2 \\
&:= 3 + ((33/3 + 3 + 3)^3 - 3^{3+3}) \\
&:= 4444 - (4/4 + 4^4) \\
&:= 5 + (((5555+5)/5 - 55) + 5^5) \\
&:= 66/6 + (6 \times ((666-6) + 6 \times 6)) \\
&:= 7 + ((7/7 - 77) \times (7/7 - (7 \times 7 + 7))) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8)) + (88/8) + 8) \\
&:= 99 + ((9-9/9) \times (((9+9)/9)^9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4188 &:= 1 + (111 + ((1+1) \times (1 + (1+1)^{11} - 11))) \\
&:= 2 \times ((2 \times 22 + 2)^2 - 22) \\
&:= 3 + (3 \times ((3 \times 3 + 3)^3 - 333)) \\
&:= 4444 - 4^4 \\
&:= 5^5 + (((5-5^5)/(5+5)) + 5 \times 5 \times 55) \\
&:= (66 \times ((6+6)/6)^6) - 6 \times 6 \\
&:= (77+7)/7 \times ((7 \times 7 \times 7 - 7/7) + 7) \\
&:= 88 + (8 \times 8 \times 8 \times 8 + (8/((8+8)/8))) \\
&:= 9 + (((9-9/9) \times ((9+9)/9)^9 + 9)) + (99/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4189 &:= 111 + ((1+1) \times (1 + (1 + (1+1)^{11} - 11))) \\
&:= 2/2 + (2 \times ((2 \times 22 + 2)^2 - 22)) \\
&:= 3 + ((3/3+3)^{3+3} + (3 \times (3^3 + 3))) \\
&:= 4/4 + (4444 - 4^4) \\
&:= (5+5+5) \times (5 \times 55 + 5) - 55/5 \\
&:= (((66-6/6)^{(6+6)/6}) - 6 \times 6) \\
&:= ((77+7) \times (7/7 + 7 \times 7)) - 77/7 \\
&:= 8 + (((8 \times 8 \times 8 \times 8 - (88/8)) + 88) + 8) \\
&:= 9999/9 + ((9+9) \times (9 \times (9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4190 &:= (11-1) \times (1 + (11 \times (1 + (111/(1+1+1)))) \\
&:= 2 + (2 \times ((2 \times 22 + 2)^2 - 22)) \\
&:= 3 + (((33/3 + 3 + 3)^3 - 3^{3+3}) + 3) \\
&:= (4+4)/4 + (4444 - 4^4) \\
&:= (5+5+5) \times (5 \times 55 + 5) - 5 - 5 \\
&:= 6 \times 6 + (((6+6)/6)^6 \times (66 - 6/6)) - 6 \\
&:= 7 + (((7 \times (7 \times (77+7) + 7)) + (77/7)) + 7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - ((8+8)/8)) + 88) \\
&:= (9/9+9) \times (((9 \times 999+9)/(9+9)) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4191 &:= 11 \times (11 + (((1111-1)/(1+1+1))) \\
&:= 222 + ((2^{2+2+2} - 2/2)^2) \\
&:= 3 \times (((33/3)^3 + 33) + 33) \\
&:= 4 + (4444 - (4/4 + 4^4)) \\
&:= ((5-5/5) \times ((5-5/5)^5 + 5 \times 5)) - 5 \\
&:= 6 \times 666 + ((6 \times 66 - 6)/((6+6)/6)) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) - ((7+7)/7)^7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - 8/8) + 88) \\
&:= ((99/9+9) \times (999/9+99)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4192 &:= 11 + (((1+111)^{1+1}) - 1)/(1+1+1) \\
&:= 2 \times (((2 \times 22 + 2)^2 - 22) + 2) \\
&:= 3 \times 33 + ((3/3+3)^{3+3} - 3) \\
&:= 4 + (4444 - 4^4) \\
&:= (5+5)/5 \times (5^5 - ((5-5/5)^5 + 5)) \\
&:= 6 \times 6 + (((6+6)/6)^{6+6} - 6) + 66 \\
&:= 77 + (7 \times 7 \times (77+7) - 7/7) \\
&:= 8 + (8 \times 8 \times 8 \times 8 + 88) \\
&:= (9-9/9) \times (((9+9)/9)^9) + (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4193 &:= 1 + (11 + (((1 + 111)^{1+1}) - 1) / (1 + 1 + 1)) \\
&:= 2 + (((2^{2+2+2} - 2/2)^2) + 222) \\
&:= (3 + 3) \times ((3^{3+3} - 33) + 3) - 3/3 \\
&:= 4 + ((4444 - 4^4) + 4/4) \\
&:= ((5 + 5)/5 + 5) \times ((5^5 - 5)/5 - 5 \times 5) \\
&:= (6/6 + 6) \times (666 - 66 - 6/6) \\
&:= 77 + 7 \times 7 \times (77 + 7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 + 88) + 8/8) \\
&:= 9 + ((9 - 9/9) \times (((9 + 9)/9)^9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4194 &:= 111 + (((1 + 1)^{1+11}) - (1 + 1 + 11)) \\
&:= 2 + (2 \times (((2 \times 22 + 2)^2 - 22) + 2)) \\
&:= (3 + 3) \times ((3^{3+3} - 33) + 3) \\
&:= 4 + ((4444 - 4^4) + (4 + 4)/4) \\
&:= 55 + (((5 - 5/5)^5 - (5 + 5)) + 5^5) \\
&:= 6 + ((66 \times ((6 + 6)/6)^6) - 6 \times 6) \\
&:= 7/7 + (7 \times 7 \times (77 + 7) + 77) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 + ((8 + 8)/8)) + 88) \\
&:= (9 + 9) \times (9 \times (9 + 9 + 9) - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4195 &:= 111 + (((1 + 1)^{1+11}) - (1 + 11)) \\
&:= 22/2 + (2 \times (2^{22/2} + 2 \times 22)) \\
&:= 3 \times 33 + (3/3 + 3)^{3+3} \\
&:= 4 + ((4444 - (4/4 + 4^4)) + 4) \\
&:= (5 + 5 + 5) \times (5 \times 55 + 5) - 5 \\
&:= 6 + (((66 - 6/6)^{(6+6)/6}) - 6 \times 6) \\
&:= 77 + (7 \times 7 \times (77 + 7) + ((7 + 7)/7)) \\
&:= 88 + (8 \times 8 \times 8 \times 8 + (88/8)) \\
&:= 99 + ((9 - 9/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4196 &:= 111 + (((1 + 1)^{1+11}) - 11) \\
&:= 2 \times (((2 \times 22 + 2)^2 - 22) + 2) + 2 \\
&:= 3/3 + ((3/3 + 3)^{3+3} + 3 \times 33) \\
&:= 4 + ((4444 - 4^4) + 4) \\
&:= (5 - 5/5) \times ((5 - 5/5)^5 + 5 \times 5) \\
&:= 6 \times 6 + (((6 + 6)/6)^6 \times (66 - 6/6)) \\
&:= 7 + (((77 + 7) \times (7/7 + 7 \times 7)) - (77/7)) \\
&:= 88 + (((88 + 8)/8) + 8 \times 8 \times 8 \times 8) \\
&:= 9/9 + (((9 - 9/9) \times ((9 + 9)/9)^9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4197 &:= 1 + (111 + (((1 + 1)^{1+11}) - 11)) \\
&:= 2^{2 \times (2+2+2)} + 2222/22 \\
&:= 3 + ((3 + 3) \times ((3^{3+3} - 33) + 3)) \\
&:= (4 + 4)^4 + (4444/44) \\
&:= ((5 + 5)/5 \times (5^5 - (5 - 5/5)^5)) - 5 \\
&:= 6 \times 6 + (((6 + 6)/6)^{6+6} - 6/6) + 66 \\
&:= 77 + ((7 \times 7 \times (77 + 7) - 7) + (77/7)) \\
&:= 8 \times 8 \times 8 \times 8 + (8888/88) \\
&:= 99 + (((9 - 9/9) \times ((9 + 9)/9)^9) + ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4198 &:= 1 + (1 + (111 + (((1 + 1)^{1+11}) - 11))) \\
&:= 2 \times (2222 - ((22/2)^2 + 2)) \\
&:= 3 + ((3/3 + 3)^{3+3} + 3 \times 33) \\
&:= (4 + 4)^4 + ((444 - 4)/4 - (4 + 4)) \\
&:= (5 + 5 + 5) \times (5 \times 55 + 5) - (5 + 5)/5 \\
&:= 6 \times 6 + (((6 + 6)/6)^{6+6} + 66) \\
&:= ((77 + 7) \times (7/7 + 7 \times 7)) - (7 + 7)/7 \\
&:= 8 \times 8 \times 8 \times 8 + ((888 - 8)/8 - 8) \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9) + 9)) + 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4199 &:= (((1 + 1) \times (11 - 1)) - 1) \times ((1 + 1) \times 111 - 1) \\
&:= (22 - (2/2 + 2)) \times (222 - 2/2) \\
&:= 3 + (((3/3 + 3)^{3+3} + 3 \times 33) + 3/3) \\
&:= 44/4 + (4444 - 4^4) \\
&:= 55 + (((5 - 5/5)^5 - 5) + 5^5) \\
&:= (6 \times (666 + 6 \times 6)) - (6/6 + 6 + 6) \\
&:= ((77 + 7) \times (7/7 + 7 \times 7)) - 7/7 \\
&:= 888/8 + (8 \times 8 \times 8 \times 8 - 8) \\
&:= ((9 - 9/9) + 9) \times (((9 + 9)/9)^{9-9/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4200 &:= (1 + 1) \times ((11 + (11 - 1)) \times (11 - 1)^{1+1}) \\
&:= 2 \times ((2 \times 22 + 2)^2 - 2^{2+2}) \\
&:= (3 + 3)^3 + (3 \times ((33/3)^3 - 3)) \\
&:= 44 + ((4 \times 4 \times (4^4 + 4)) - 4) \\
&:= (5 + 5 + 5) \times (5 \times 55 + 5) \\
&:= (6/6 + 6) \times (666 - 66) \\
&:= (77 + 7) \times (7/7 + 7 \times 7) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 + 88) + 8) \\
&:= (99/9 + 9) \times (999/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4201 &:= 111 + ((1 + 1) \times ((1 + 1)^{11} - (1 + 1 + 1))) \\
&:= (2 \times 2222) - (22^2 + 2)/2 \\
&:= 3 + (((3/3 + 3)^{3+3} + 3 \times 33) + 3) \\
&:= 4 + ((4444/44) + (4 + 4)^4) \\
&:= 5/5 + (5 + 5 + 5) \times (5 \times 55 + 5) \\
&:= (6 \times (666 + 6 \times 6)) - 66/6 \\
&:= 7/7 + (((77 + 7) \times (7/7 + 7 \times 7)) - (77/7)) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 + 88) + 8/8) + 8) \\
&:= ((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4202 &:= (1 + 1) \times (((1 + 1) \times 1111) - 11^{1+1}) \\
&:= 2 \times (2222 - (22/2)^2) \\
&:= 3^3 + (((3 + 3) \times (3^{3+3} - 33)) - 3/3) \\
&:= (4 + 4)^4 + ((444 - 4)/4 - 4) \\
&:= (5 + 5)/5 \times (5^5 - (5 - 5/5)^5) \\
&:= (6 - 66)/6 + (6 \times (666 + 6 \times 6)) \\
&:= (7 + 7)/7 + ((77 + 7) \times (7/7 + 7 \times 7)) \\
&:= 8 + (((8 \times 8 \times 8 \times 8 + ((8 + 8)/8)) + 88) + 8) \\
&:= ((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4203 &:= 111 + ((1 + 1) \times ((1 + 1)^{11} - (1 + 1))) \\
&:= ((2^{2+2+2} + 2/2)^2) - 22 \\
&:= 3 \times ((3 \times ((3 + 3) \times (3 \times 3^3 - 3))) - 3) \\
&:= (4 + 4)^4 + (444/4 - 4) \\
&:= 55 + (((5 - 5/5)^5 - 5/5) + 5^5) \\
&:= 6 \times (6 + 6 + 6) + (((6 + 6)/6)^{6+6} - 6/6) \\
&:= (7 \times ((7 \times (77 + 7) + 7) + 7)) - 77/7 \\
&:= 8 + ((8 \times 8 \times 8 \times 8 + (88/8)) + 88) \\
&:= ((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4204 &:= 111 + (((1 + 1)^{1+11}) - (1 + 1 + 1)) \\
&:= 2 + (2 \times (2222 - (22/2)^2)) \\
&:= (3 \times (33 + 3)) + (3/3 + 3)^{3+3} \\
&:= 44 + (4 \times 4 \times (4^4 + 4)) \\
&:= 55 + ((5 - 5/5)^5 + 5^5) \\
&:= 6 \times (6 + 6 + 6) + (((6 + 6)/6)^{6+6}) \\
&:= 77 + (7 \times 7 \times (77 + 7) + (77/7)) \\
&:= 8 \times (8 \times 8 \times 8 + 8) + (88/((8 + 8)/8)) \\
&:= 9 + (((9 - 9/9) \times ((9 + 9)/9)^9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4205 &:= 111 + ((1 + 1) \times ((1 + 1)^{11} - 1)) \\
&:= 2 + (((2^{2+2+2} + 2/2)^2) - 22) \\
&:= 3/3 + ((3/3 + 3)^{3+3} + (3 \times (33 + 3))) \\
&:= 44 + ((4 \times 4 \times (4^4 + 4)) + 4/4) \\
&:= 5 + (5 + 5 + 5) \times (5 \times 55 + 5) \\
&:= (6 \times (666 + 6 \times 6)) - 6/6 - 6 \\
&:= 7 + (((77 + 7) \times (7/7 + 7 \times 7)) - ((7 + 7)/7)) \\
&:= 8 \times 8 \times 8 \times 8 + ((888 - (8 + 8))/8) \\
&:= (9 + 9)/9 + (((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4206 &:= 111 + (((1 + 1)^{1+11}) - 1) \\
&:= (2 \times ((2 \times 22 + 2)^2 - 2)) - 22 \\
&:= (3 + 3) \times (3^{3+3} - (3^3 + 3/3)) \\
&:= (4 + 4)^4 + (444 - 4)/4 \\
&:= 5 + ((5 + 5 + 5) \times (5 \times 55 + 5) + 5/5) \\
&:= (6 \times (666 + 6 \times 6)) - 6 \\
&:= 7 + (((77 + 7) \times (7/7 + 7 \times 7)) - 7/7) \\
&:= 8 \times 8 \times 8 \times 8 + (888 - 8)/8 \\
&:= 99 + (((9 - 9/9) \times ((9 + 9)/9)^9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4207 &:= 111 + ((1 + 1)^{1+11}) \\
&:= 222/2 + 2^{2 \times (2+2+2)} \\
&:= 333/3 + (3/3 + 3)^{3+3} \\
&:= (4 + 4)^4 + 444/4 \\
&:= 5 + ((5 + 5)/5 \times (5^5 - (5 - 5/5)^5)) \\
&:= 6/6 + ((6 \times (666 + 6 \times 6)) - 6) \\
&:= 7 + (((77 + 7) \times (7/7 + 7 \times 7)) - 7/7) \\
&:= 888/8 + 8 \times 8 \times 8 \times 8 \\
&:= 999/9 + ((9 - 9/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4208 &:= 1 + (111 + ((1+1)^{1+11})) \\
&:= 2 \times (2 \times (2 \times ((22 \times (22+2)) - 2))) \\
&:= (3+3)^3 + ((3 \times (33/3)^3) - 3/3) \\
&:= 4 \times (4 \times (4^4 - 4) + 44) \\
&:= 5 + (((5 - 5/5)^5 - 5/5) + 5^5) + 55 \\
&:= (6+6)/6 + ((6 \times (666 + 6 \times 6)) - 6) \\
&:= 7 + (((77+7) \times (7/7 + 7 \times 7)) + 7/7) \\
&:= (8 \times (8 \times 8 \times 8 + 8 + 8)) - 8 - 8 \\
&:= 9 + (((9 - 9/9) + 9) \times (((9+9)/9)^{9-9/9} - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4209 &:= 1 + (1 + (111 + ((1+1)^{1+11}))) \\
&:= 2 + (2^{2 \times (2+2+2)} + 222/2) \\
&:= (3+3)^3 + (3 \times (33/3)^3) \\
&:= 4/4 + (4 \times (4 \times (4^4 - 4) + 44)) \\
&:= 5 + (((5 - 5/5)^5 + 55) + 5^5) \\
&:= 66 \times 66 - (666/6 + 6 \times 6) \\
&:= 7 + (((77+7) \times (7/7 + 7 \times 7)) + ((7+7)/7)) \\
&:= ((8/8 + 8 \times 8)^{(8+8)/8}) - 8 - 8 \\
&:= 9 + ((99/9 + 9) \times (999/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4210 &:= 1 + (1 + (1 + (111 + ((1+1)^{1+11})))) \\
&:= (2 \times (2 \times 22 + 2)^2) - 22 \\
&:= 3 + ((3/3 + 3)^{3+3} + 333/3) \\
&:= 4 + ((444 - 4)/4 + (4 + 4)^4) \\
&:= 5 + ((5 + 5 + 5) \times (5 \times 55 + 5) + 5) \\
&:= (6 \times (666 + 6 \times 6)) - (6 + 6)/6 \\
&:= 7 + ((7 \times ((7 \times (77 + 7) + 7) + 7)) - (77/7)) \\
&:= ((8 - (8 + 8)/8) \times (8 \times 88 - 8/8)) - 8 \\
&:= ((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4211 &:= 111 + ((1+1) \times (1 + (1 + (1+1)^{11}))) \\
&:= 2/2 + ((2 \times (2 \times 22 + 2)^2) - 22) \\
&:= ((3+3) \times (3^{3+3} - 3^3)) - 3/3 \\
&:= 4 + (444/4 + (4 + 4)^4) \\
&:= 5^5 + (5555/5 - 5 \times 5) \\
&:= (6 \times (666 + 6 \times 6)) - 6/6 \\
&:= 77/7 + ((77+7) \times (7/7 + 7 \times 7)) \\
&:= 8 + (((8 \times 8 \times 8 + 8 + (88/8)) + 88) + 8) \\
&:= ((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4212 &:= 1 + (111 + ((1+1) \times (1 + (1 + (1+1)^{11})))) \\
&:= 2 + ((2 \times (2 \times 22 + 2)^2) - 22) \\
&:= (3+3) \times (3^{3+3} - 3^3) \\
&:= 4 + (4 \times (4 \times (4^4 - 4) + 44)) \\
&:= 5^5 + ((5555 + 5)/5 - 5 \times 5) \\
&:= 6 \times (666 + 6 \times 6) \\
&:= (77 + 7)/7 \times ((7 \times 7 \times 7 + 7/7) + 7) \\
&:= (8 - (8 + 8)/8) \times (8 \times 88 - ((8 + 8)/8)) \\
&:= (9 + 9) \times (9 \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4213 &:= 11 \times (((1+11) \times ((11 \times (1+1+1)) - 1)) - 1) \\
&:= (22/2)^2 + 2 \times (2^{22/2} - 2) \\
&:= 3/3 + ((3+3) \times (3^{3+3} - 3^3)) \\
&:= (4 \times 4 \times (4^4 + 4 + 4)) - 44/4 \\
&:= 5^5 + ((5+5)/5 \times (555 - (55/5))) \\
&:= 6/6 + (6 \times (666 + 6 \times 6)) \\
&:= (7 \times ((7 \times (77 + 7) + 7) + 7)) - 7/7 \\
&:= (8 \times (8 \times 8 \times 8 + 8 + 8)) - 88/8 \\
&:= 9/9 + ((9+9) \times (9 \times (9 + 9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4214 &:= 11^{1+1} + (((1+1)^{1+11}) - (1+1+1)) \\
&:= (2 \times ((2 \times 22 + 2)^2 + 2)) - 22 \\
&:= 3 + (((3+3) \times (3^{3+3} - 3^3)) - 3/3) \\
&:= 4 + (((444 - 4)/4 + (4 + 4)^4) + 4) \\
&:= 5 + (((5 - 5/5)^5 + 55) + 5^5) + 5 \\
&:= (6 + 6)/6 + (6 \times (666 + 6 \times 6)) \\
&:= 7 \times ((7 \times (77 + 7) + 7) + 7) \\
&:= 8 + ((888 - 8)/8 + 8 \times 8 \times 8 \times 8) \\
&:= (9 + 9)/9 + ((9 + 9) \times (9 \times (9 + 9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4215 &:= 11^{1+1} + ((1+1) \times ((1+1)^{11} - 1)) \\
&:= (22/2)^2 + (2^{2 \times (2+2+2)} - 2) \\
&:= 3 + ((3+3) \times (3^{3+3} - 3^3)) \\
&:= 4 + ((444/4 + (4 + 4)^4) + 4) \\
&:= 5^5 + (55 \times (5 \times 5 - 5) - (5 + 5)) \\
&:= (6 \times 6/(6 + 6)) + (6 \times (666 + 6 \times 6)) \\
&:= 7/7 + (7 \times ((7 \times (77 + 7) + 7) + 7)) \\
&:= 8 + (888/8 + 8 \times 8 \times 8 \times 8) \\
&:= ((9 + 9 + 9)/9) + ((9 + 9) \times (9 \times (9 + 9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4216 &:= 11^{1+1} + (((1+1)^{1+11}) - 1) \\
&:= 2 \times (2 \times (2 \times ((22 + 2/2)^2 - 2))) \\
&:= 3 + (((3+3) \times (3^{3+3} - 3^3)) + 3/3) \\
&:= (4 \times 4 + 4/4) \times (4^4 - 4 - 4) \\
&:= 5 + ((5555/5 - 5 \times 5) + 5^5) \\
&:= 6 + ((6 \times (666 + 6 \times 6)) - ((6 + 6)/6)) \\
&:= (7 + 7)/7 + (7 \times ((7 \times (77 + 7) + 7) + 7)) \\
&:= (8 \times (8 \times 8 \times 8 + 8 + 8)) - 8 \\
&:= (((999 + 9)/(9 + 9)) + 9)^{(9+9)/9} - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4217 &:= 11^{1+1} + ((1+1)^{1+11}) \\
&:= (22/2)^2 + 2^{2 \times (2+2+2)} \\
&:= 3 + (((3+3) \times (3^{3+3} - 3^3)) - 3/3) + 3 \\
&:= (4 + 4)^4 + ((44/4)^{(4+4)/4}) \\
&:= 5 + (((5555 + 5)/5 - 5 \times 5) + 5^5) \\
&:= 6 + ((6 \times (666 + 6 \times 6)) - 6/6) \\
&:= ((7/7 + 7) \times (7 \times 77 - (77/7))) - 7 \\
&:= ((8/8 + 8 \times 8)^{(8+8)/8}) - 8 \\
&:= ((9 \times 9 + 9)/(9 + 9)) + ((9 + 9) \times (9 \times (9 + 9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4218 &:= 1 + (11^{1+1} + ((1+1)^{1+11})) \\
&:= 222 \times (22 - (2/2 + 2)) \\
&:= 3 + (((3+3) \times (3^{3+3} - 3^3)) + 3) \\
&:= (4 + 4)^4 + (444 + 44)/4 \\
&:= 5^5 + (55 \times (5 \times 5 - 5) - ((5 + 5)/5 + 5)) \\
&:= 6 + (6 \times (666 + 6 \times 6)) \\
&:= 777/7 \times (7 \times 7 - 77/7) \\
&:= (8 - (8 + 8)/8) \times (8 \times 88 - 8/8) \\
&:= 999/9 \times ((99/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4219 &:= 1 + (1 + (11^{1+1} + ((1+1)^{1+11}))) \\
&:= 2 + (2^{2 \times (2+2+2)} + (22/2)^2) \\
&:= 3 + (((3+3) \times (3^{3+3} - 3^3)) + 3/3) + 3 \\
&:= (4 \times 4 \times (4^4 + 4 + 4)) - 4/4 - 4 \\
&:= 5^5 + (55 \times (5 \times 5 - 5) - (5/5 + 5)) \\
&:= ((66 - 6/6)^{(6+6)/6}) - 6 \\
&:= 7 + ((77 + 7)/7 \times ((7 \times 7 \times 7 + 7/7) + 7)) \\
&:= 8/8 + ((8 - (8 + 8)/8) \times (8 \times 88 - 8/8)) \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4220 &:= 1 + (1 + (1 + (11^{1+1} + ((1+1)^{1+11})))) \\
&:= 2 + (222 \times (22 - (2/2 + 2))) \\
&:= 3 \times 3 + (((3+3) \times (3^{3+3} - 3^3)) - 3/3) \\
&:= (4 \times 4 \times (4^4 + 4 + 4)) - 4 \\
&:= 5^5 + (55 \times (5 \times 5 - 5) - 5) \\
&:= 6 + ((6 \times (666 + 6 \times 6)) + ((6 + 6)/6)) \\
&:= 7 + ((7 \times ((7 \times (77 + 7) + 7) + 7)) - 7/7) \\
&:= (88 \times (88 + 8) - 8)/((8 + 8)/8) \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4221 &:= 11^{1+1} + ((1+1) \times (1 + (1 + (1+1)^{11}))) \\
&:= (2 \times (2 \times 22 + 2)^2) - 22/2 \\
&:= 3 \times ((3 \times ((3+3) \times (3 \times 3^3 - 3))) + 3) \\
&:= ((4^4 + 4)/4)^{(4+4)/4} - 4 \\
&:= 5 \times 5 \times 5 + (5 - 5/5)^{5/5+5} \\
&:= (66 + 6/6) \times (66 - (6 \times 6/(6 + 6))) \\
&:= 7 + (7 \times ((7 \times (77 + 7) + 7) + 7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) - (88/8)) \\
&:= 9 + ((9 + 9) \times (9 \times (9 + 9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4222 &:= (1+1) \times (((1+1) \times 1111) - 111) \\
&:= (2 \times 2222) - 222 \\
&:= 3^3 + ((3/3 + 3)^{3+3} + 3 \times 33) \\
&:= (4 + 4)^4 + ((4^4 - 4)/((4 + 4)/4)) \\
&:= 5^5 + ((55 \times (5 \times 5 - 5) - 5) + ((5 + 5)/5)) \\
&:= (66 \times ((6 + 6)/6)^6) - (6 + 6)/6 \\
&:= 7 + ((7 \times ((7 \times (77 + 7) + 7) + 7)) + 7/7) \\
&:= (8 \times (8 \times 8 \times 8 + 8 + 8)) - (8 + 8)/8 \\
&:= 9 + (((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) + 9/9)
\end{aligned}$$

- ▶ 4223 := $1 + ((1 + 1) \times (((1 + 1) \times 1111) - 111))$
:= $(2^{2+2+2} + 2/2)^2 - 2$
:= $33/3 + ((3 + 3) \times (3^{3+3} - 3^3))$
:= $(4 \times 4 \times (4^4 + 4 + 4)) - 4/4$
:= $5^5 + (55 \times (5 \times 5 - 5) - ((5 + 5)/5))$
:= $(66 \times ((6 + 6)/6)^6) - 6/6$
:= $7 + ((7 \times ((7 \times (77 + 7) + 7) + 7)) + ((7 + 7)/7))$
:= $(8 \times (8 \times 8 \times 8 + 8 + 8)) - 8/8$
:= $99/9 + ((9 + 9) \times (9 \times (9 + 9 + 9) - 9))$
- ▶ 4224 := $11 \times ((1 + 11) \times ((11 \times (1 + 1 + 1)) - 1))$
:= $2 \times (2 \times (2 \times (22 \times (22 + 2))))$
:= $33 \times ((3 - 3/3 + 3)^3 + 3)$
:= $4 \times 4 \times (4^4 + 4 + 4)$
:= $5^5 + (55 \times (5 \times 5 - 5) - 5/5)$
:= $66 \times ((6 + 6)/6)^6$
:= $(7/7 + 7) \times (7 \times 77 - (77/7))$
:= $8 \times (8 \times 8 \times 8 + 8 + 8)$
:= $9 \times 99 + (9999/((9 + 9 + 9)/9))$
- ▶ 4225 := $(1 + ((1 + 1)^{(1+1) \times (1+1+1)}))^{1+1}$
:= $(2^{2+2+2} + 2/2)^2$
:= $((3/3 + 3)^3 + 3/3)^{3-3/3}$
:= $((4^4 + 4)/4)^{(4+4)/4}$
:= $5^5 + 55 \times (5 \times 5 - 5)$
:= $(66 - 6/6)^{(6+6)/6}$
:= $(77 - (77 + 7)/7)^{(7+7)/7}$
:= $(8/8 + 8 \times 8)^{(8+8)/8}$
:= $((999 + 9)/(9 + 9) + 9)^{(9+9)/9}$
- ▶ 4226 := $1 + ((1 + ((1 + 1)^{(1+1) \times (1+1+1)}))^{1+1})$
:= $(2 \times ((2 \times 22 + 2)^2 - 2)) - 2$
:= $3 + (((3 + 3) \times (3^{3+3} - 3^3)) + 33/3)$
:= $4/4 + ((4^4 + 4)/4)^{(4+4)/4}$
:= $5^5 + (55 \times (5 \times 5 - 5) + 5/5)$
:= $6/6 + ((66 - 6/6)^{(6+6)/6})$
:= $7 \times 7 \times (77 + 7) + (777 - 7)/7$
:= $8/8 + ((8/8 + 8 \times 8)^{(8+8)/8})$
:= $9/9 + (((999 + 9)/(9 + 9) + 9)^{(9+9)/9})$
- ▶ 4227 := $((1 + 1)^{1+11}) + ((11 \times (1 + 11)) - 1)$
:= $2 + (2^{2+2+2} + 2/2)^2$
:= $3 + ((33 \times 3^3) + 3333)$
:= $4 + ((4 \times 4 \times (4^4 + 4 + 4)) - 4/4)$
:= $5^5 + (55 \times (5 \times 5 - 5) + ((5 + 5)/5))$
:= $(6 + 6)/6 + ((66 - 6/6)^{(6+6)/6})$
:= $777/7 + 7 \times 7 \times (77 + 7)$
:= $88/8 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) - 8)$
:= $9 + (999/9 \times ((99/9 + 9 + 9) + 9))$
- ▶ 4228 := $((1 + 1)^{1+11}) + (11 \times (1 + 11))$
:= $2 \times (2 \times 22 + 2)^2 - 2$
:= $3 + (((3/3 + 3)^3 + 3/3)^{3-3/3})$
:= $4 + (4 \times 4 \times (4^4 + 4 + 4))$
:= $((5 + 5)/5 + 5) \times ((55 \times 55 - 5)/5)$
:= $66 + (((6 + 6)/6)^{6+6} + 66)$
:= $(77 \times (7 \times 7 + 7)) - 77 - 7$
:= $(88 \times (88 + 8) + 8)/(8 + 8)/8$
:= $((9/9 + 9 + 9) + 9) \times (9 \times (9 + 9) - (99/9))$
- ▶ 4229 := $1 + (((1 + 1)^{1+11}) + (11 \times (1 + 11)))$
:= $2 + ((2^{2+2+2} + 2/2)^2 + 2)$
:= $((3 + 3) \times ((3^{3+3} - 3^3) + 3)) - 3/3$
:= $4 + ((4^4 + 4)/4)^{(4+4)/4}$
:= $5 + ((55 \times (5 \times 5 - 5) - 5/5) + 5^5)$
:= $6 + ((66 \times ((6 + 6)/6)^6) - 6/6)$
:= $7/7 + ((77 \times (7 \times 7 + 7)) - (77 + 7))$
:= $8 + (((8 \times (8 \times 8 \times 8 + 8 + 8)) - (88/8)) + 8)$
:= $((9/9 + 9) \times ((9 + 9)/9)^9) - 9 \times 99$
- ▶ 4230 := $1 + (1 + (((1 + 1)^{1+11}) + (11 \times (1 + 11))))$
:= $(2 \times (2 \times 22 + 2)^2) - 2$
:= $(3 + 3) \times ((3^{3+3} - 3^3) + 3)$
:= $4 + (((4^4 + 4)/4)^{(4+4)/4} + 4/4)$
:= $5 + (55 \times (5 \times 5 - 5) + 5^5)$
:= $6 + (66 \times ((6 + 6)/6)^6)$
:= $(7 - ((7 + 7)/7)) \times ((77 \times 77 - 7)/7)$
:= $(8 - (8 + 8)/8) \times (8 \times 88 + 8/8)$
:= $9 + (((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) + 9)$
- ▶ 4231 := $111 + ((1 + 1) \times (1 + (11 + (1 + 1)^{11})))$
:= $(2 \times (2 \times 22 + 2)^2) - 2/2$
:= $3/3 + ((3 + 3) \times ((3^{3+3} - 3^3) + 3))$
:= $4 + (((4 \times 4 \times (4^4 + 4 + 4)) - 4/4) + 4)$
:= $5^5 + (5555/5 - 5)$
:= $6 + ((66 - 6/6)^{(6+6)/6})$
:= $7 + ((7/7 + 7) \times (7 \times 77 - (77/7)))$
:= $8 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) - 8/8)$
:= $((9 - 9/9) \times (((9 + 9)/9)^9 + 9) + 9) - 9$
- ▶ 4232 := $(1 + 1) \times (((1 + 1) \times (1 + (11 + 11))))^{1+1}$
:= $2 \times (2 \times 22 + 2)^2$
:= $3 + (((3 + 3) \times ((3^{3+3} - 3^3) + 3)) - 3/3)$
:= $4 + ((4 \times 4 \times (4^4 + 4 + 4)) + 4)$
:= $5^5 + ((5555 + 5)/5 - 5)$
:= $6 + (((66 - 6/6)^{(6+6)/6}) + 6/6)$
:= $7 + ((77 - (77 + 7)/7)^{(7+7)/7})$
:= $8 + (8 \times (8 \times 8 \times 8 + 8))$
:= $9 + (((9 + 9) \times (9 \times (9 + 9 + 9) - 9)) + (99/9))$
- ▶ 4233 := $1 + ((1 + 1) \times (((1 + 1) \times (1 + (11 + 11))))^{1+1})$
:= $2/2 + (2 \times (2 \times 22 + 2)^2)$
:= $3 + ((3 + 3) \times ((3^{3+3} - 3^3) + 3))$
:= $4 + (((4^4 + 4)/4)^{(4+4)/4} + 4)$
:= $5^5 + ((5 + 5)/5 \times (555 - 5/5))$
:= $66 \times 66 - ((666/6 + 6) + 6)$
:= $((7 + 7)/7 + 7 \times 7) \times (77 - 7/7 + 7)$
:= $8 + ((8/8 + 8 \times 8)^{(8+8)/8})$
:= $9 + ((9999/((9 + 9 + 9)/9)) + 9 \times 99)$
- ▶ 4234 := $(1 + 1) \times (1 + (((1 + 1) \times (1 + (11 + 11))))^{1+1})$
:= $2 + (2 \times (2 \times 22 + 2)^2)$
:= $3 + (((3 + 3) \times ((3^{3+3} - 3^3) + 3)) + 3/3)$
:= $(44 - 4)/4 + (4 \times 4 \times (4^4 + 4 + 4))$
:= $5^5 + ((5555 - (5 + 5))/5)$
:= $6 + (((6 + 6)/6)^{6+6} + 66) + 66$
:= $(77 \times (7 \times 7 + 7)) - 7/7 - 77$
:= $8 + (((8/8 + 8 \times 8)^{(8+8)/8}) + 8/8)$
:= $9 + (((999 + 9)/(9 + 9) + 9)^{(9+9)/9})$
- ▶ 4235 := $11 \times (11 \times (1 + (1 + 11 \times (1 + 1 + 1))))$
:= $2 + ((2 \times (2 \times 22 + 2)^2) + 2/2)$
:= $3 \times 3^{3+3} + (3 - 3/3)^{33/3}$
:= $44/4 + (4 \times 4 \times (4^4 + 4 + 4))$
:= $5^5 + (555 + 555)$
:= $66/6 + (66 \times ((6 + 6)/6)^6)$
:= $77 \times ((7 \times 7 - 7/7) + 7)$
:= $88/8 + (8 \times (8 \times 8 \times 8 + 8 + 8))$
:= $9 \times 9 \times (9 + 9 + 9) + (((9 + 9)/9)^{99/9})$
- ▶ 4236 := $1 + (11 \times (11 \times (1 + (1 + 11 \times (1 + 1 + 1))))$
:= $2 \times ((2 \times 22 + 2)^2 + 2)$
:= $3 \times ((33/3)^3 + 3 \times 3^3)$
:= $(4 \times (4 \times (4^4 + 4 + 4) + 4)) - 4$
:= $5^5 + 5555/5$
:= $6 + ((66 \times ((6 + 6)/6)^6) + 6)$
:= $7/7 + (77 \times ((7 \times 7 - 7/7) + 7))$
:= $8 + ((88 \times (88 + 8) + 8)/(8 + 8)/8)$
:= $9 + (999/9 \times ((99/9 + 9 + 9) + 9) + 9)$
- ▶ 4237 := $((1 + 1) \times (11 - 1)) - 1 \times (1 + (1 + 1) \times 111)$
:= $2/2 + (2 \times ((2 \times 22 + 2)^2 + 2))$
:= $3/3 + (3 \times ((33/3)^3 + 3 \times 3^3))$
:= $4 + (((4^4 + 4)/4)^{(4+4)/4} + 4) + 4$
:= $5^5 + (5555 + 5)/5$
:= $6 + (((66 - 6/6)^{(6+6)/6}) + 6)$
:= $(7 + 7)/7 + (77 \times ((7 \times 7 - 7/7) + 7))$
:= $88 + (8 \times (8 \times 8 \times 8 + 8) - (88/8))$
:= $9 + (((9/9 + 9 + 9) + 9) \times (9 \times (9 + 9) - (99/9)))$

$$\begin{aligned}
\blacktriangleright 4238 &:= (1+11)^{1+1} + ((1+1) \times ((1+1)^{11} - 1)) \\
&:= 2 + (2 \times ((2 \times 22 + 2)^2 + 2)) \\
&:= (3^3 - 3/3) \times ((3+3) \times 3^3 + 3/3) \\
&:= (4 \times (4 \times (4^4 + 4 + 4) + 4)) - (4 + 4)/4 \\
&:= 5^5 + (5555 + 5 + 5)/5 \\
&:= 66 \times 66 - ((666 + 6)/6 + 6) \\
&:= 7 + (((7/7 + 7) \times (7 \times 77 - (77/7))) + 7) \\
&:= 8 + ((8 - (8 + 8)/8) \times (8 \times 88 + 8/8)) \\
&:= (((9 - 9/9) + 9) + 9) \times (9 \times (9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4239 &:= (1+11)^{1+1} + (((1+1)^{1+11}) - 1) \\
&:= 2 + ((2 \times ((2 \times 22 + 2)^2 + 2)) + 2/2) \\
&:= 3 + (3 \times ((33/3)^3 + 3 \times 3^3)) \\
&:= (4 \times (4 \times (4^4 + 4 + 4) + 4)) - 4/4 \\
&:= 5 + (((5555 - (5 + 5))/5) + 5^5) \\
&:= 66 \times 66 - (666/6 + 6) \\
&:= 7 + (((77 - (77 + 7)/7)^{(7+7)/7}) + 7) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 + 8 + 8)) - 8/8) + 8) \\
&:= 999 + ((9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4240 &:= (1+11)^{1+1} + ((1+1)^{1+11}) \\
&:= 2 \times (((2 \times 22 + 2)^2 + 2) + 2) \\
&:= (3+3) \times (3^3 - 3) + (3/3 + 3)^{3+3} \\
&:= 4 \times (4 \times (4^4 + 4 + 4) + 4) \\
&:= 5 + (555 + 555) + 5^5 \\
&:= (6+6) \times (6+6) + (((6+6)/6)^{6+6}) \\
&:= (7/7 + 7) \times (7 \times 77 - ((7+7)/7 + 7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) + 8) \\
&:= (9 - 9/9) \times (((9+9)/9)^9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4241 &:= 1 + ((1+11)^{1+1} + ((1+1)^{1+11})) \\
&:= 2/2 + (2 \times (((2 \times 22 + 2)^2 + 2) + 2)) \\
&:= 3 + ((3^3 - 3/3) \times ((3+3) \times 3^3 + 3/3)) \\
&:= 4 \times 4 + ((4^4 + 4)/4)^{(4+4)/4} \\
&:= 5 + (5555/5 + 5^5) \\
&:= 6 + ((66 \times ((6+6)/6)^6) + (66/6)) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) - (7/7 + 77)) \\
&:= 8 + (((8/8 + 8 \times 8)^{(8+8)/8}) + 8) \\
&:= 9/9 + ((9 - 9/9) \times (((9+9)/9)^9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4242 &:= 1 + (1 + ((1+11)^{1+1} + ((1+1)^{1+11}))) \\
&:= 2 + (2 \times (((2 \times 22 + 2)^2 + 2) + 2)) \\
&:= 3 + ((3 \times ((33/3)^3 + 3 \times 3^3)) + 3) \\
&:= 4^4 + (((4 - 444)/4) + (4 + 4)^4) \\
&:= 5 + ((5555 + 5)/5 + 5^5) \\
&:= (6 \times ((666 + 6 \times 6) + 6)) - 6 \\
&:= 7 + (77 \times ((7 \times 7 - 7/7) + 7)) \\
&:= 8 + (((8/8 + 8 \times 8)^{(8+8)/8}) + 8/8) + 8) \\
&:= 999/9 + ((9 + 9 + 9) \times (9 \times (9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4243 &:= 1 + (1 + (1 + ((1+11)^{1+1} + ((1+1)^{1+11}))) \\
&:= 22/2 + (2 \times (2 \times 22 + 2)^2) \\
&:= 3 + ((3+3) \times (3^3 - 3) + (3/3 + 3)^{3+3}) \\
&:= 4 + ((4 \times (4 \times (4^4 + 4 + 4) + 4)) - 4/4) \\
&:= 5 + ((5555 + 5 + 5)/5 + 5^5) \\
&:= 6 + (((66 - 6/6)^{(6+6)/6}) + 6) + 6) \\
&:= 7 + ((77 \times ((7 \times 7 - 7/7) + 7)) + 7/7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) + (88/8)) \\
&:= 9 + (((999 + 9)/(9 + 9)) + 9)^{(9+9)/9} + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4244 &:= (1+11)^{1+1} + (((1+1+11)^{1+1+1}) - 1) \\
&:= 2 \times (((2 \times 22 + 2)^2 + 2) + 2) + 2) \\
&:= 33 + (((3+3) \times (3^{3+3} - 3^3)) - 3/3) \\
&:= 4 + (4 \times (4 \times (4^4 + 4 + 4) + 4)) \\
&:= 5^5 + (((5+5) \times (555 + 5)) - 5)/5) \\
&:= 66 \times 66 - (666 + 6)/6) \\
&:= ((7 + 7)/7)^7 + 7 \times 7 \times (77 + 7) \\
&:= 8 + (((88 \times (88 + 8) + 8)/(8 + 8)/8)) + 8) \\
&:= 9 + (((9 + 9)/9)^{99/9} + 9 \times 9 \times (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4245 &:= (1+11)^{1+1} + ((1+1+11)^{1+1+1}) \\
&:= 2 + (2 \times (2 \times 22 + 2)^2) + 22/2) \\
&:= 3 \times (((33/3)^3 + 3 \times 3^3) + 3) \\
&:= 4 + (((4+4)^4 - 444/4) + 4^4) \\
&:= 5^5 + ((5+5) \times (555 + 5)/5) \\
&:= 66 \times 66 - 666/6) \\
&:= ((7 + 7 + 7)/7)^7 + 7 \times 7 \times (7 \times 7 - 7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8) - (88/8)) + 88) \\
&:= 9 \times (9 + 9)/9)^9 - (99 \times 99/(9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4246 &:= 1 + ((1+11)^{1+1} + ((1+1+11)^{1+1+1})) \\
&:= 2 + (2 \times (((2 \times 22 + 2)^2 + 2) + 2) + 2)) \\
&:= 3/3 + (((3+3) \times (3^{3+3} - 3^3)) + 33) \\
&:= (4+4)^4 + ((44+4^4)/(4+4)/4) \\
&:= 5 + ((5555/5 + 5^5) + 5) \\
&:= 66 \times 66 + ((6 - 666)/6) \\
&:= 77/7 + (77 \times ((7 \times 7 - 7/7) + 7)) \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 8) - ((8+8)/8)) \\
&:= 99/9 \times (((9+9)/9)^9) - ((99 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4247 &:= 1111 + ((1+111)/(1+1)^{1+1}) \\
&:= 22 + ((2^{2+2+2} + 2/2)^2) \\
&:= (33/3)^3 + (3 \times (3^3 \times (33 + 3))) \\
&:= 44 + ((444/4 - 4) + (4 + 4)^4) \\
&:= 5^5 + ((5555 + 55)/5) \\
&:= (6 \times ((666 + 6 \times 6) + 6)) - 6/6 \\
&:= 7 + ((7/7 + 7) \times (7 \times 77 - ((7+7)/7 + 7))) \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 8) - 8/8) \\
&:= 9 + (((9 - 9/9) + 9) + 9) \times (9 \times (9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4248 &:= (1+11)^{1+1} + ((1+1) \times (1111 - 11)) \\
&:= 2 \times ((2 \times 22 + 2)^2 + 2 \times (2 + 2)) \\
&:= (3+3) \times (((3^{3+3} - 3^3) + 3) + 3) \\
&:= 4 + ((4 \times (4 \times (4^4 + 4 + 4) + 4)) + 4) \\
&:= 5^5 + (((5555 + 55) + 5)/5) \\
&:= 6 \times ((666 + 6 \times 6) + 6) \\
&:= (7/7 + 7) \times (7 \times 77 - (7/7 + 7)) \\
&:= 88 + 8 \times (8 \times 8 \times 8 + 8) \\
&:= 9 + ((9 + 9) \times (99 + 9 \times 9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4249 &:= 1 + ((1+11)^{1+1} + ((1+1) \times (1111 - 11))) \\
&:= 2 + (((2^{2+2+2} + 2/2)^2) + 22) \\
&:= ((3+3) \times 3^{3+3}) - (3 - 3/3 + 3)^3 \\
&:= 4 + (((4+4)^4 - 444/4) + 4^4) + 4) \\
&:= 5^5 + ((5 - 5/5)^5 + 5 \times (5 \times 5 - 5)) \\
&:= 6/6 + (6 \times ((666 + 6 \times 6) + 6)) \\
&:= ((7/7 + 7) \times (7 \times 77 - 7)) - 7 \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 + 8) + 88) \\
&:= 9 + ((9 - 9/9) \times (((9+9)/9)^9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4250 &:= ((1+11)^{1+1+1}) + (11 \times (1 + (1+1+11))) \\
&:= 22 + (2 \times ((2 \times 22 + 2)^2 - 2)) \\
&:= (3/3 + 33) \times (3 - 3/3 + 3)^3 \\
&:= 44 + ((444 - 4)/4 + (4 + 4)^4) \\
&:= 5 \times (55 \times (5 + 5 + 5) + 5 \times 5) \\
&:= 6 + (66 \times 66 - (666 + 6)/6) \\
&:= (7/7 + 7 \times 7) \times (7/7 + 77 + 7) \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 8) + ((8+8)/8)) \\
&:= 9 + ((9 - 9/9) \times (((9+9)/9)^9 + 9) + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4251 &:= 11 + ((1+11)^{1+1} + ((1+1)^{1+11})) \\
&:= 2 + (((2^{2+2+2} + 2/2)^2) + 22) + 2) \\
&:= 3 + ((3+3) \times (((3^{3+3} - 3^3) + 3) + 3)) \\
&:= 44 + (444/4 + (4 + 4)^4) \\
&:= 5 + (((5555/5 + 5^5) + 5) + 5) \\
&:= 6 + (66 \times 66 - 666/6) \\
&:= 7 + (7 \times 7 \times (77 + 7) + ((7+7)/7)^7) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 + 8) + (88/8)) + 8) \\
&:= 9 + (((9 + 9 + 9) \times (9 \times (9 + 9) - 9)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4252 &:= ((1+11)^{1+1+1}) + ((1+11) \times (1+1+11)) \\
&:= 22 + ((2 \times (2 \times 22 + 2)^2) - 2) \\
&:= 3 + (((3+3) \times 3^{3+3}) - (3 - 3/3 + 3)^3) \\
&:= (4+4)^4 + (4 \times (44 - 4) - 4) \\
&:= 5 + (((5555 + 55)/5) + 5^5) \\
&:= 6 + (((6 - 666)/6) + 66 \times 66) \\
&:= (77 \times (7 \times 7 + 7)) - (77/7 + 7 \times 7) \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 8) + (8/((8+8)/8))) \\
&:= (9 \times (9 - 9 \times 9)) + ((9 \times 9 - 99/9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4253 &:= 1 + (((1+1)^{1+11}) + ((1+11) \times (1+1+11))) \\
&:= 22 + (2 \times (2 \times 22 + 2)^2) - 2/2 \\
&:= 3 + ((3/3 + 33) \times (3 - 3/3 + 3)^3) \\
&:= 4/4 + ((4 \times (44 - 4) - 4) + (4 + 4)^4) \\
&:= 5 + (((5555 + 55) + 5)/5) + 5^5 \\
&:= 6 + ((6 \times ((666 + 6 \times 6) + 6)) - 6/6) \\
&:= 7 + ((77 \times ((7 \times 7 - 7/7) + 7)) + (77/7)) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 + 8) - (88/8)) + 88) + 8) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - (((999 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4254 &:= (1+1) \times (11 + (((1+1) \times (1 + (11+11)))^{1+1})) \\
&:= 22 + (2 \times (2 \times 22 + 2)^2) \\
&:= 33 \times (3 \times 33 + 3^3 + 3) - 3 \\
&:= (4+4)^4 + (4 \times (44 - 4) - (4+4)/4) \\
&:= 5 + (((5 - 5/5)^5 + 5 \times (5 \times 5 - 5)) + 5^5) \\
&:= 6 + (6 \times ((666 + 6 \times 6) + 6)) \\
&:= ((7/7 + 7) \times (7 \times 77 - 7)) - (7 + 7)/7 \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8) - (8 + 8)/8) + 88) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4255 &:= ((1+111) \times (1 + (111/(1+1+1)))) - 1 \\
&:= 22 + ((2 \times (2 \times 22 + 2)^2) + 2/2) \\
&:= (3+3) \times 3^3 + ((3/3 + 3)^{3+3} - 3) \\
&:= (4+4)^4 + (4 \times (44 - 4) - 4/4) \\
&:= 5 + ((5 \times 5 \times (55 - 5 - 5)) + 5^5) \\
&:= 6 + ((6 \times ((666 + 6 \times 6) + 6)) + 6/6) \\
&:= ((7/7 + 7) \times (7 \times 77 - 7)) - 7/7 \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8) - 8/8) + 88) \\
&:= ((9 - 999)/9) + (9 \times (9 + 9) \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4256 &:= (1+111) \times (1 + (111/(1+1+1))) \\
&:= 2 + ((2 \times (2 \times 22 + 2)^2) + 22) \\
&:= (33/3 + 3^3) \times ((333 + 3)/3) \\
&:= 4 \times ((4 \times 4^4 - 4) + 44) \\
&:= 5 \times 5 + ((5555/5 - 5) + 5^5) \\
&:= 66 \times 66 + ((66 - 666)/6) \\
&:= (7/7 + 7) \times (7 \times 77 - 7) \\
&:= 8 + (8 \times (8 \times 8 \times 8 + 8) + 88) \\
&:= (9 - 9/9) \times (((9 + 9)/9)^9) + (99/9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4257 &:= 1 + ((1+111) \times (1 + (111/(1+1+1)))) \\
&:= (2/2 + 2)^2 \times (22^2 - 22/2) \\
&:= 33 \times (3 \times 33 + 3^3 + 3) \\
&:= 4/4 + (4 \times (44 - 4) + (4 + 4)^4) \\
&:= 5 + (((5555 + 55)/5) + 5^5) + 5 \\
&:= 6 + ((66 \times 66 - 666/6) + 6) \\
&:= 7/7 + ((7/7 + 7) \times (7 \times 77 - 7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8) + 8/8) + 88) \\
&:= 9 \times (9 \times 9 \times 9 - ((9 + 9)/9)^{9-9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4258 &:= (1+1) \times ((1+1)^{11} + (11 - 1 - 1)^{1+1}) \\
&:= 22 + (2 \times ((2 \times 22 + 2)^2 + 2)) \\
&:= (3+3) \times 3^3 + (3/3 + 3)^{3+3} \\
&:= (4+4)^4 + (4 \times (44 - 4) + (4+4)/4) \\
&:= 5^5 + (((5555 + 55) + 55)/5) \\
&:= 6 + (((6 - 666)/6) + 66 \times 66) + 6 \\
&:= (7 + 7)/7 + ((7/7 + 7) \times (7 \times 77 - 7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8) + ((8 + 8)/8)) + 88) \\
&:= 9 \times (9 + 9) + ((9 - 9/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4259 &:= (1+1)^{11} + (((1+1) \times 1111) - 11) \\
&:= 2 + ((2/2 + 2)^2 \times (22^2 - 22/2)) \\
&:= 3 + ((33/3 + 3^3) \times ((333 + 3)/3)) \\
&:= 4 + ((4 \times (44 - 4) - 4/4) + (4 + 4)^4) \\
&:= 55 + (((5 - 5/5)^5 + 55) + 5^5) \\
&:= 6 \times 6 + ((66 \times ((6 + 6)/6)^6) - 6/6) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) - (77/7 + 7 \times 7)) \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 8) + (88/8)) \\
&:= 9/9 + (((9 - 9/9) \times ((9 + 9)/9)^9) + 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4260 &:= (11 + ((1+1+111)^{1+1}))/((1+1+1)) \\
&:= 2 + ((2 \times ((2 \times 22 + 2)^2 + 2)) + 22) \\
&:= 3 + 33 \times (3 \times 33 + 3^3 + 3) \\
&:= 4 + (4 \times (44 - 4) + (4 + 4)^4) \\
&:= (55 + 5) \times ((55/5 + 55) + 5) \\
&:= 6 \times 6 + (66 \times ((6 + 6)/6)^6) \\
&:= (77/7 + 7 \times 7) \times ((7/7 - 7) + 77) \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 8) + ((88 + 8)/8)) \\
&:= (9/9 + 9) \times (((9 + 9) \times (9 + 9) - 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4261 &:= 1 + ((11 + ((1+1+111)^{1+1}))/((1+1+1))) \\
&:= (22/2)^2 + (2 \times (2^{22/2} + 22)) \\
&:= 3 + ((3/3 + 3)^{3+3} + (3+3) \times 3^3) \\
&:= 4 \times 44 + ((4+4)^4 - 44/4) \\
&:= 5 \times 5 + (5555/5 + 5^5) \\
&:= 6 \times 6 + ((66 - 6/6)^{(6+6)/6}) \\
&:= (77 \times (7 \times 7 + 7)) - ((7 + 7)/7 + 7 \times 7) \\
&:= 88 + ((8 \times 8 \times 8 - (88/8)) + 88) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - ((999 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4262 &:= (1+11)^{1+1} + ((1+1) \times (11 + (1+1)^{11})) \\
&:= 22 + (2 \times (((2 \times 22 + 2)^2 + 2) + 2)) \\
&:= ((3+3) \times 3^{3+3}) - ((333 + 3)/3) \\
&:= 4 \times 44 + ((4 - 44)/4 + (4 + 4)^4) \\
&:= 5 \times 5 + ((5555 + 5)/5 + 5^5) \\
&:= 6 + (((66 - 666)/6) + 66 \times 66) \\
&:= (77 \times (7 \times 7 + 7)) - (7/7 + 7 \times 7) \\
&:= (888 - 8)/8 + (8 \times (8 \times 8 \times 8) - 8) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - ((999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4263 &:= ((1+1)^{1+11}) + ((1+1+11)^{1+1} - (1+1)) \\
&:= (22 - 2/2) \times (((22 - 2)^2 + 2)/2 + 2) \\
&:= 3 \times ((3 \times (3^3 + 3)) + (33/3)^3) \\
&:= 4 \times 44 + (4 + 4)^4 - (4/4 + 4 + 4) \\
&:= ((5 + 5)/5 + 5) \times (((5^5 - 55)/5) - 5) \\
&:= (6 \times ((6 \times 6/(6 + 6))^6)) - 666/6 \\
&:= 7 \times (7 \times 77 - 7 + 77) \\
&:= (8 - 8/8) \times ((8 - 8/8) \times (88 - 8/8)) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4264 &:= ((1+1)^{1+11}) + ((1+1+11)^{1+1} - 1) \\
&:= 2 \times ((2 \times 22 + 2)^2 + 2^{2+2}) \\
&:= ((3 - 333)/3) + ((3 + 3) \times 3^{3+3}) \\
&:= 4 \times 44 + ((4 + 4)^4 - (4 + 4)) \\
&:= 5^5 + (((5^5 - 555) + 5^5)/5) \\
&:= 6 \times 6 + (((6 + 6)/6)^{6+6} + 66) + 66 \\
&:= 7/7 + (7 \times (7 \times 77 - 7 + 77)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8) + 88) + 8) \\
&:= (9/9 + 9 \times 9) \times (9 \times 9 - (99/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4265 &:= ((1+1)^{1+11}) + (1+1+11)^{1+1} \\
&:= ((22/2 + 2)^2) + 2^{2 \times (2+2+2)} \\
&:= (33/3 + 3 + 3)^3 - 3 \times (3 + 3)^3 \\
&:= 4 + (((4 + 4)^4 - 44/4) + 4 \times 44) \\
&:= 5 + ((55 + 5) \times ((55/5 + 55) + 5)) \\
&:= 6 + (((66 \times ((6 + 6)/6)^6) - 6/6) + 6 \times 6) \\
&:= (7 + 7)/7 + (7 \times (7 \times 77 - 7 + 77)) \\
&:= 8 + (((8 \times (8 \times 8 \times 8 + 8) + 8/8) + 88) + 8) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - (9/9 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4266 &:= 1 + (((1+1)^{1+11}) + (1+1+11)^{1+1}) \\
&:= (22 \times (((2^{2+2} - 2)^2) - 2)) - 2 \\
&:= 3 \times (33 \times 33 + 333) \\
&:= 4 \times 44 + ((4 + 4)^4 - ((4 + 4)/4 + 4)) \\
&:= 5 + ((5555/5 + 5^5) + 5 \times 5) \\
&:= 6 + ((66 \times ((6 + 6)/6)^6) + 6 \times 6) \\
&:= (7 - 7/7) \times ((77/7 - 77) + 777) \\
&:= (8 - (8 + 8)/8) \times ((8 \times 88 - 8/8) + 8) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - (99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4267 &:= (1+1)^{11} + ((1+1) \times (1111 - 1)) - 1 \\
&:= (22 \times (((2^{2+2} - 2)^2) - 2)) - 2/2 \\
&:= 3/3 + (3 \times (33 \times 33 + 333)) \\
&:= 4 \times 44 + ((4 + 4)^4 - (4/4 + 4)) \\
&:= 5 + (((5555 + 5)/5 + 5^5) + 5 \times 5) \\
&:= 6 + (((66 - 6/6)^{(6+6)/6}) + 6 \times 6) \\
&:= 77/7 + ((7/7 + 7) \times (7 \times 77 - 7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8) + (88/8)) + 88) \\
&:= 99 + ((9 - 9/9) \times (((9 + 9)/9)^9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4268 &:= (1+1)^{11} + ((1+1) \times (1111-1)) \\
&:= 22 \times ((2^{2+2} - 2)^2) - 2 \\
&:= 3 + ((33/3 + 3 + 3)^3 - 3 \times (3+3)^3) \\
&:= 4 \times 44 + ((4+4)^4 - 4) \\
&:= 5 + (((5+5)/5 + 5) \times (((5^5 - 55)/5) - 5)) \\
&:= 66/6 \times (6 \times 66 - ((6+6)/6 + 6)) \\
&:= 77/7 \times ((7 \times 777 - 7)/(7+7)) \\
&:= (88/((8+8)/8)) \times ((8/8 + 88) + 8) \\
&:= 99/9 \times ((9 \times 99 - (9+9)/9^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4269 &:= (1+1)^{11} + (((1+1) \times 1111) - 1) \\
&:= 2/2 + (22 \times (((2^{2+2} - 2)^2) - 2)) \\
&:= 3 + (3 \times (33 \times 33 + 333)) \\
&:= 44 + ((4^4 + 4)/4)^{(4+4)/4} \\
&:= 5^5 + (((5 - 5/5)^5 - 5) + 5 \times 5 \times 5) \\
&:= 6 + ((6 \times ((6 \times 6)/(6+6))^6) - 666/6) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) - (7/7 + 7 \times 7)) \\
&:= 8 \times (8 \times 8 \times 8 + 8) + ((888 - (8+8))/8) \\
&:= 999 + ((99 \times 99 + 9)/(9+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4270 &:= (1+1)^{11} + ((1+1) \times 1111) \\
&:= 2^{22/2} + 2222 \\
&:= 3 + ((3 \times (33 \times 33 + 333)) + 3/3) \\
&:= 4 \times 44 + ((4+4)^4 - (4+4)/4) \\
&:= ((5+5)/5 + 5) \times (555 + 55) \\
&:= 6 \times (6 \times 6 - 6) + (((6+6)/6)^{6+6}) - 6 \\
&:= 7 + (7 \times (7 \times 77 - 7 + 77)) \\
&:= (888 - 8)/8 + 8 \times (8 \times 8 \times 8 + 8) \\
&:= (9 \times 9 - 99/9) \times (9 \times 9 - (99/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4271 &:= 1 + ((1+1)^{11} + ((1+1) \times 1111)) \\
&:= 2/2 + (2^{22/2} + 2222) \\
&:= ((3+3) \times 3^{3+3}) - ((3 \times 33 + 3/3) + 3) \\
&:= 4 \times 44 + ((4+4)^4 - 4/4) \\
&:= 5 + (((5555/5 + 5^5) + 5 \times 5) + 5) \\
&:= 6 \times 6 + ((66 \times ((6+6)/6)^6) + (66/6)) \\
&:= 7 + ((7 \times (7 \times 77 - 7 + 77)) + 7/7) \\
&:= 888/8 + 8 \times (8 \times 8 \times 8 + 8) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) - ((999+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4272 &:= (1+1)^{11} + ((1+1) \times (1+1111)) \\
&:= 2 + (2^{22/2} + 2222) \\
&:= ((3+3) \times 3^{3+3}) - (3 \times 33 + 3) \\
&:= 4 \times (4 \times 4^4 + 44) \\
&:= 5 \times 5 + (((5555 + 55)/5) + 5^5) \\
&:= 66 + ((6 \times (666 + 6 \times 6)) - 6) \\
&:= (7/7 + 7) \times (((7+7)/7 - 7) + 7 \times 7) \\
&:= 88 + (8 \times 8 \times 8 + 8 + 88) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4273 &:= 1 + ((1+1)^{11} + ((1+1) \times (1+1111))) \\
&:= 2 + (2^{22/2} + 2222) + 2/2 \\
&:= 3/3 + (((3+3) \times 3^{3+3}) - (3 \times 33 + 3)) \\
&:= 4/4 + (4 \times 44 + (4+4)^4) \\
&:= 5^5 + (((5 - 5/5)^5 - 5/5) + 5 \times 5 \times 5) \\
&:= 66 \times 66 - (66/6 + 66 + 6) \\
&:= 7 \times 7 + ((7/7 + 7) \times (7 \times 77 - (77/7))) \\
&:= 8/8 + ((8 \times 8 \times 8 + 8 + 88) + 88) \\
&:= 9 \times (9+9) \times (9+9+9) - ((9+9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4274 &:= (1+1)^{11} + ((1+1) \times (1+(1+1111))) \\
&:= (2 \times ((2 \times 22 + 2)^2 + 22)) - 2 \\
&:= ((3+3) \times 3^{3+3}) - (3 \times 33 + 3/3) \\
&:= 4 \times 44 + ((4+4)^4 + (4+4)/4) \\
&:= 5^5 + (((5 - 5/5)^5 + 5 \times 5 \times 5) \\
&:= 6 + ((66/6) \times (6 \times 66 - ((6+6)/6 + 6))) \\
&:= 77/7 + (7 \times (7 \times 77 - 7 + 77)) \\
&:= 8 + ((8 - (8+8)/8) \times ((8 \times 88 - 8/8) + 8)) \\
&:= 9 \times (9+9) \times (9+9+9) - (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4275 &:= 1 + ((1+1)^{11} + ((1+1) \times (1+(1+1111)))) \\
&:= (2 \times 2222) - ((22/2 + 2)^2) \\
&:= ((3+3) \times 3^{3+3}) - 3 \times 33 \\
&:= 4 + ((4 \times 44 - 4/4) + (4+4)^4) \\
&:= 5 \times (5 \times (55 + 5) + 555) \\
&:= 6 \times 6 + (66 \times 66 - (666/6 + 6)) \\
&:= ((7/7 + 7 \times 7) + 7) \times (77 - (7+7)/7) \\
&:= ((8/8 - 8) + 8 \times 8) \times (88/8 + 8 \times 8) \\
&:= 9 \times (9+9) \times (9+9+9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4276 &:= 11 + (((1+1)^{1+11}) + (1+1+11)^{1+1}) \\
&:= 2 \times ((2 \times 22 + 2)^2 + 22) \\
&:= 3/3 + (((3+3) \times 3^{3+3}) - 3 \times 33) \\
&:= 4 + (4 \times 44 + (4+4)^4) \\
&:= 5/5 + (5 \times (5 \times (55 + 5) + 555)) \\
&:= 6 \times (6 \times 6 - 6) + (((6+6)/6)^{6+6}) \\
&:= ((7+7)/7) \times (((7+7+7)/7)^7 - 7 \times 7) \\
&:= 8 + ((88/((8+8)/8)) \times ((8/8 + 88) + 8)) \\
&:= 9/9 + (9 \times (9+9) \times (9+9+9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4277 &:= (1+1+11) \times (((1+1+1) \times (111-1)) - 1) \\
&:= 2/2 + (2 \times ((2 \times 22 + 2)^2 + 22)) \\
&:= 3 + (((3+3) \times 3^{3+3}) - (3 \times 33 + 3/3)) \\
&:= 4 + ((4 \times 44 + (4+4)^4) + 4/4) \\
&:= 5^5 + (((5+5)/5)^5 \times (55/5 + 5 \times 5)) \\
&:= 66 + ((6 \times (666 + 6 \times 6)) - 6/6) \\
&:= 7 + ((7 \times (7 \times 77 - 7 + 77)) + 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - 88/8 \\
&:= (9 - (9+9)/9) \times (((9+9)/9)^9) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4278 &:= (11 \times (((1+1) \times (11-1))^{1+1} - 11)) - 1 \\
&:= 2 + (2 \times ((2 \times 22 + 2)^2 + 22)) \\
&:= 3 + (((3+3) \times 3^{3+3}) - 3 \times 33) \\
&:= 4 + ((4 \times 44 + (4+4)^4) + (4+4)/4) \\
&:= (((5+5)/5 + 5) \times ((5^5 - 55)/5 - 5)) - 55 \\
&:= 66 + (6 \times (666 + 6 \times 6)) \\
&:= 7 + (((7 \times (7 \times 77 - 7 + 77)) + 7/7) + 7) \\
&:= (8 - (8+8)/8) \times ((8 \times 88 + 8/8) + 8) \\
&:= 9/9 + ((9 - (9+9)/9) \times (((9+9)/9)^9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4279 &:= 11 \times (((1+1) \times (11-1))^{1+1} - 11) \\
&:= 22/2 \times ((22-2)^2 - 22/2) \\
&:= (3+3)^3 + ((3/3+3)^{3+3} - 33) \\
&:= 4 + (((4 \times 44 - 4/4) + (4+4)^4) + 4) \\
&:= 5 + (((5 - 5/5)^5 + 5 \times 5 \times 5) + 5^5) \\
&:= 66/6 \times (6 \times 66 - (6/6 + 6)) \\
&:= 77/7 \times ((7 \times 777 + 7)/(7+7)) \\
&:= 8 + (8 \times (8 \times 8 \times 8 + 8) + 888/8) \\
&:= 9 + ((9 \times 9 - 99/9) \times (9 \times 9 - (99/9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4280 &:= 1 + (11 \times (((1+1) \times (11-1))^{1+1} - 11)) \\
&:= 2 \times (((2 \times 22 + 2)^2 + 22) + 2) \\
&:= ((33/3 + 3)^3) + (3 \times ((3 - 3/3)^{3 \times 3})) \\
&:= 4 + ((4 \times 44 + (4+4)^4) + 4) \\
&:= 5 + (5 \times (5 \times (55 + 5) + 555)) \\
&:= (6 - 66)/6 + (66 \times (66 - 6/6)) \\
&:= (7/7 + 7) \times ((7 \times 77 - (77/7)) + 7) \\
&:= 8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - 8 \\
&:= (9 - 9/9) \times ((99 \times 99 - 9)/(9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4281 &:= 11 + ((1+1)^{11} + ((1+1) \times 1111)) \\
&:= 2 + (22/2 \times ((22-2)^2 - 22/2)) \\
&:= 3 \times (((33/3)^3 - 3) + 3 \times 33) \\
&:= 4 + (((4 \times 44 + (4+4)^4) + 4/4) + 4) \\
&:= 5 + ((5 \times (5 \times (55 + 5) + 555)) + 5/5) \\
&:= 6 \times 6 + (66 \times 66 - 666/6) \\
&:= 77 \times (77 + 7) - ((7+7+7)/7)^7 \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - 8) \\
&:= (9 \times ((9+9) \times (9+9+9) - 9)) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4282 &:= 1 + (11 + ((1+1)^{11} + ((1+1) \times 1111))) \\
&:= 2 + (2 \times (((2 \times 22 + 2)^2 + 22) + 2)) \\
&:= (3^3 \times ((3+3) \times 3^3 - 3)) - 33/3 \\
&:= 4 \times 44 + ((44-4)/4 + (4+4)^4) \\
&:= 5 + (((5+5)/5)^5 \times (55/5 + 5 \times 5)) + 5^5 \\
&:= (((6+6)/6)^6 \times (66 + 6/6)) - 6 \\
&:= 7 + (((7/7 + 7 \times 7) + 7) \times (77 - (7+7)/7)) \\
&:= ((8/8 + 8 \times 8) \times (((8+8)/8) + 8 \times 8)) - 8 \\
&:= (9 \times ((9+9) \times (9+9+9) - 9)) - 99/9
\end{aligned}$$

- ▶ 4283 := $((1+1) \times ((1+1+11)^{1+1+1})) - 111$
:= $((2+2+2)^2 \times ((22/2)^2 - 2)) - 2/2$
:= $((3 \times 3 + 33) \times (3 \times 33 + 3)) - 3/3$
:= $4 \times 44 + (44/4 + (4+4)^4)$
:= $5 + (((5+5)/5 + 5) \times ((5^5 - 5)/5 - 5)) - 55$
:= $66 \times 66 - (66 + 6/6 + 6)$
:= $((77+7) \times ((7+7)/7 + 7 \times 7)) - 7/7$
:= $8 + (((8/8 - 8) + 8 \times 8) \times (88/8 + 8 \times 8))$
:= $(9 \times ((9+9) \times (9+9+9) - 9)) - 9/9 - 9$
- ▶ 4284 := $(1+1+1) \times ((1+11) \times (11^{1+1} - (1+1)))$
:= $(2+2+2)^2 \times ((22/2)^2 - 2)$
:= $(3 \times 3 + 33) \times (3 \times 33 + 3)$
:= $(4^4 - 4) \times (4 \times 4 + 4/4)$
:= $5 + (((5 - 5/5)^5 + 5 \times 5 \times 5) + 5^5) + 5$
:= $6 \times ((6+6) \times (66 - 6) - 6)$
:= $(77+7) \times ((7+7)/7 + 7 \times 7)$
:= $(8/8 + 8) \times (88 \times 88 / (8+8) - 8)$
:= $(9 \times ((9+9) \times (9+9+9) - 9)) - 9$
- ▶ 4285 := $1 + ((1+1+1) \times ((1+11) \times (11^{1+1} - (1+1))))$
:= $2/2 + ((2+2+2)^2 \times ((22/2)^2 - 2))$
:= $3/3 + ((3 \times 3 + 33) \times (3 \times 33 + 3))$
:= $4/4 + ((4^4 - 4) \times (4 \times 4 + 4/4))$
:= $5^5 + ((5+5) \times (555/5 + 5))$
:= $6/6 + (6 \times ((6+6) \times (66 - 6) - 6))$
:= $7/7 + ((77+7) \times ((7+7)/7 + 7 \times 7))$
:= $8 + (8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - (88/8))$
:= $9/9 + ((9 \times ((9+9) \times (9+9+9) - 9)) - 9)$
- ▶ 4286 := $((1+1+1) \times (((1+1+11) \times (111-1)) - 1)) - 1$
:= $2 + ((2+2+2)^2 \times ((22/2)^2 - 2))$
:= $3 + (((3 \times 3 + 33) \times (3 \times 33 + 3)) - 3/3)$
:= $4^4 + ((4+4)^4 - ((4^4 + 4 + 4)/4))$
:= $55 + ((5555/5 - 5) + 5^5)$
:= $66 \times 66 - (((6+6)/6)^6 + 6)$
:= $7 + (77/7 \times ((7 \times 777 + 7)/(7+7)))$
:= $8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - (8+8)/8$
:= $9 + ((9 - (9+9)/9) \times (((9+9)/9)^9 + 99))$
- ▶ 4287 := $(1+1+1) \times (((1+1+11) \times (111-1)) - 1)$
:= $22/2 + (2 \times ((2 \times 22 + 2)^2 + 22))$
:= $3 + ((3 \times 3 + 33) \times (3 \times 33 + 3))$
:= $4^4 + ((4+4)^4 - (4^4 + 4)/4)$
:= $55 + (((5555 + 5)/5 - 5) + 5^5)$
:= $66 \times 66 - (6 \times 6 / (6+6) + 66)$
:= $(77 \times (7 \times 7 + 7)) - (77/7 + 7 + 7)$
:= $8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - 8/8$
:= $(99+9)/9 + (9 \times (9+9) \times (9+9+9) - 99)$
- ▶ 4288 := $1 + ((1+1+1) \times (((1+1+11) \times (111-1)) - 1))$
:= $2 \times (2 \times 2 \times (22+2) + 2^{22/2})$
:= $((3/3+3)^3) \times (((3/3+3)^3) + 3)$
:= $4 \times ((4 \times 4^4 + 44) + 4)$
:= $(55/5+5) \times (((5 - (5+5)/5)^5) + 5 \times 5)$
:= $((6+6)/6)^6 \times (66+6/6)$
:= $(7/7+7) \times (7 \times 77 - ((7+7+7)/7))$
:= $8 \times (8 \times 8 \times 8 + 8 + 8 + 8)$
:= $(9 - 9/9) \times (((99 \times 99 + 9)/(9+9)) - 9)$
- ▶ 4289 := $(11 \times ((1+1) \times (11-1))^{1+1}) - 111$
:= $(22 \times (22 - 2)^2 - 222)/2$
:= $(3^3 \times ((3+3) \times 3^3 - 3)) - (3/3+3)$
:= $4/4 + ((4 \times 4 \times (4^4 - 4)) + 4^4)$
:= $55 \times (5 \times 5 + 55) - 555/5$
:= $66 \times 66 - (66 + 6/6)$
:= $((7/7+7) \times (7 \times 77 - ((7+7)/7))) - 7$
:= $8/8 + 8 \times (8 \times 8 \times 8 + 8 + 8 + 8)$
:= $9 + ((9 - 9/9) \times ((99 \times 99 - 9)/(9+9) - 9))$
- ▶ 4290 := $(1+1+1) \times ((1+1+11) \times (111-1))$
:= $22 \times ((2^{2+2} - 2)^2 - 2/2)$
:= $3 \times ((33/3)^3 + 3 \times 33)$
:= $(4^4 + 4)/4 \times ((4^4 + 4 + 4)/4)$
:= $55 \times ((55 - (5+5)/5) + 5 \times 5)$
:= $66 \times (66 - 6/6)$
:= $(7/7 + 77) \times ((7 \times 7 - 7/7) + 7)$
:= $(8/8 + 8 \times 8) \times (((8+8)/8) + 8 \times 8)$
:= $(9 \times ((9+9) \times (9+9+9) - 9)) - (9+9+9)/9$
- ▶ 4291 := $1 + ((1+1+1) \times ((1+1+11) \times (111-1)))$
:= $2 + (22 \times (22 - 2)^2 - 222)/2$
:= $3 + (((3/3+3)^3) \times (((3/3+3)^3) + 3))$
:= $4 + (((4+4)^4 - (4^4 + 4)/4) + 4^4)$
:= $55 + (5555/5 + 5^5)$
:= $6/6 + (66 \times (66 - 6/6))$
:= $(77 \times (7 \times 7 + 7)) - (7 + 7 + 7)$
:= $8/8 + ((8/8 + 8 \times 8) \times (((8+8)/8) + 8 \times 8))$
:= $(9 \times ((9+9) \times (9+9+9) - 9)) - (9+9)/9$
- ▶ 4292 := $(1+1)^{11} + ((1+1) \times (11+1111))$
:= $2 + (22 \times (((2^{2+2} - 2)^2) - 2/2))$
:= $(3^3 \times ((3+3) \times 3^3 - 3)) - 3/3$
:= $4 + ((4 \times 4 \times (4^4 - 4)) + 4^4)$
:= $55 + ((5555 + 5)/5 + 5^5)$
:= $66 \times 66 - ((6+6)/6)^6$
:= $7/7 + ((77 \times (7 \times 7 + 7)) - (7 + 7 + 7))$
:= $((((8+8)/8) + 8 \times 8)^{(8+8)/8}) - 8 \times 8$
:= $(9 \times ((9+9) \times (9+9+9) - 9)) - 9/9$
- ▶ 4293 := $(1+1+1) \times (1 + ((1+1+11) \times (111-1)))$
:= $((((2 \times 2 \times 22 + 2)^2) + 22^2) + 2)/2$
:= $3^3 \times ((3+3) \times 3^3 - 3)$
:= $(4 - 4/4)^4 \times (4^4 - 44)/4$
:= $((5+5)/5 + 5) \times ((5^5 - 55)/5) - 5$
:= $6/6 + (66 \times 66 - ((6+6)/6)^6)$
:= $((7+7)/7)^7 + (7 \times (7 \times (77+7) + 7))$
:= $(8 \times 8 - 88/8) \times ((8/8 - 8) + 88)$
:= $9 \times ((9+9) \times (9+9+9) - 9)$
- ▶ 4294 := $(1+1) \times (111 + ((1+1)^{11} - (1+1)))$
:= $(22 - (2/2 + 2)) \times (222 + 2 + 2)$
:= $3/3 + (3^3 \times ((3+3) \times 3^3 - 3))$
:= $4 + ((4^4 + 4)/4 \times ((4^4 + 4 + 4)/4))$
:= $5^5 + (((5^5 - 55)/5) + 555)$
:= $6 + (((6+6)/6)^6 \times (66 + 6/6))$
:= $(77 \times (7 \times 7 + 7)) - (77/7 + 7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - ((8+8)/8))$
:= $9/9 + (9 \times ((9+9) \times (9+9+9) - 9))$
- ▶ 4295 := $((1+1) \times (111 + ((1+1)^{11} - 11))) - 1$
:= $2^{2 \times (2+2+2)} + (((22 - 2)^2 - 2)/2)$
:= $3 + ((3^3 \times ((3+3) \times 3^3 - 3)) - 3/3)$
:= $44/4 + ((4^4 - 4) \times (4 \times 4 + 4/4))$
:= $((5+5) \times (555 - 5 \times 5 \times 5)) - 5$
:= $6 + (66 \times 66 - (66 + 6/6))$
:= $((7 - 77)/7) + ((77 \times (7 \times 7 + 7)) - 7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - 8/8)$
:= $(9+9)/9 + (9 \times ((9+9) \times (9+9+9) - 9))$
- ▶ 4296 := $(1+1) \times (111 + ((1+1)^{11} - 11))$
:= $2 \times (((2 \times (2+2) + 2)^2) + 2^{22/2})$
:= $3 + (3^3 \times ((3+3) \times 3^3 - 3))$
:= $4 + (((4 \times 4 \times (4^4 - 4)) + 4^4) + 4)$
:= $5 + ((5555/5 + 5^5) + 55)$
:= $6 + (66 \times (66 - 6/6))$
:= $(7/7 + 7) \times (7 \times 77 - ((7+7)/7))$
:= $8 + 8 \times (8 \times 8 \times 8 + 8 + 8 + 8)$
:= $(9 - 9/9) \times (9 \times (9 \times 9 - 9) - 999/9)$
- ▶ 4297 := $1 + ((1+1) \times (111 + ((1+1)^{11} - 11)))$
:= $2^{2 \times (2+2+2)} + (((22 - 2)^2 + 2)/2)$
:= $3 + ((3^3 \times ((3+3) \times 3^3 - 3)) + 3/3)$
:= $4 + ((4 - 4/4)^4 \times (4^4 - 44)/4)$
:= $5 + (((5555 + 5)/5 + 5^5) + 55)$
:= $6 + ((66 \times (66 - 6/6)) + 6/6)$
:= $(77 \times (7 \times 7 + 7)) - (77/7 + 7 + 7)$
:= $8 + (((8/8 + 8 \times 8)^{(8+8)/8}) + 8 \times 8)$
:= $9 + ((9 - 9/9) \times (((99 \times 99 + 9)/(9+9)) - 9))$

- 4298 := $(1+1) \times (1 + (111 + ((1+1)^{11} - 11)))$
:= $22 + (2 \times ((2 \times 22 + 2)^2 + 22))$
:= $3 + (((3^3 \times ((3+3) \times 3^3 - 3)) - 3/3) + 3)$
:= $4 + (((4^4 + 4)/4 \times ((4^4 + 4 + 4)/4) + 4)$
:= $((5+5)/5 + 5) \times ((5^5 - 55)/5)$
:= $6 + (66 \times 66 - ((6+6)/6)^6)$
:= $(77 \times (7 \times 7 + 7)) - (7 + 7)$
:= $8 + ((8/8 + 8 \times 8) \times (((8+8)/8) + 8 \times 8))$
:= $((9 \times 9 + 9)/(9+9)) + (9 \times ((9+9) \times (9+9+9) - 9))$
- 4299 := $1 + ((1+1) \times (1 + (111 + ((1+1)^{11} - 11))))$
:= $(22 \times ((2^{2+2} - 2)^2)) - (22/2 + 2)$
:= $3 + ((3^3 \times ((3+3) \times 3^3 - 3)) + 3)$
:= $4^4 + (((44 - 4^4)/4) + (4 + 4)^4)$
:= $5^5 + (((5^5 - 5)/5 - 5) + 555)$
:= $6 + ((66 \times 66 - ((6+6)/6)^6) + 6/6)$
:= $7/7 + ((77 \times (7 \times 7 + 7)) - (7 + 7))$
:= $88/8 + 8 \times (8 \times 8 \times 8 + 8 + 8 + 8)$
:= $9 + ((9 \times ((9+9) \times (9+9+9) - 9)) - ((9+9+9)/9))$
- 4300 := $(11 - 1) \times (((11 + (11 - 1))^{1+1}) - 11)$
:= $2 \times (2 \times (2 \times (22^2 - 2))) + 222$
:= $(33/3 + 3 \times 3) \times ((3+3)^3 - 3/3)$
:= $4 \times (((44/4)^{4-4/4}) - 4^4)$
:= $(5+5) \times (555 - 5 \times 5 \times 5)$
:= $6 + (((6+6)/6)^6 \times (66 + 6/6)) + 6$
:= $(77 \times (7 \times 7 + 7)) - (77 + 7)/7$
:= $8 + (((8+8)/8) + 8 \times 8)^{(8+8)/8} - 8 \times 8$
:= $9 + ((9 \times ((9+9) \times (9+9+9) - 9)) - ((9+9)/9))$
- 4301 := $11 \times ((1+1)^{11-1-1} - 11^{1+1})$
:= $(22 \times ((2^{2+2} - 2)^2)) - 22/2$
:= $(33/3)^3 + (3 \times (3 \times (333 - 3)))$
:= $(4 \times 4 + 4/4) \times ((4/4 - 4) + 4^4)$
:= $5^5 + (((5^5 + 5)/5 - 5) + 555)$
:= $66/6 + (66 \times (66 - 6/6))$
:= $(77 \times (7 \times 7 + 7)) - 77/7$
:= $8 + ((8 \times 8 - 88/8) \times ((8/8 - 8) + 88))$
:= $9 + ((9 \times ((9+9) \times (9+9+9) - 9)) - 9/9)$
- 4302 := $1 + (11 \times ((1+1)^{11-1-1} - 11^{1+1}))$
:= $(2/2 + 2)^2 \times (22^2 - (2 + 2 + 2))$
:= $(3+3) \times (3^{3+3} - (3 \times 3 + 3))$
:= $4/4 + ((4 \times 4 + 4/4) \times ((4/4 - 4) + 4^4))$
:= $55 + (((5555 + 55)/5) + 5^5)$
:= $6 + ((66 \times (66 - 6/6)) + 6)$
:= $((7 - 77)/7) + (77 \times (7 \times 7 + 7))$
:= $8 + ((8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - ((8+8)/8)) + 8)$
:= $9 + (9 \times ((9+9) \times (9+9+9) - 9))$
- 4303 := $(1+1+11) \times (1 + ((1+1+1) \times (111 - 1)))$
:= $2 + ((22 \times ((2^{2+2} - 2)^2)) - 22/2)$
:= $3/3 + ((3+3) \times (3^{3+3} - (3 \times 3 + 3)))$
:= $4^4 + ((4+4)^4 - ((44 + 4/4) + 4))$
:= $5 + (((5+5)/5 + 5) \times ((5^5 - 55)/5))$
:= $6 + (((66 \times (66 - 6/6)) + 6/6) + 6)$
:= $(77 \times (7 \times 7 + 7)) - ((7+7)/7 + 7)$
:= $8 + ((8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - 8/8) + 8)$
:= $9 + ((9 \times ((9+9) \times (9+9+9) - 9)) + 9/9)$
- 4304 := $1 + ((1+1+11) \times (1 + ((1+1+1) \times (111 - 1))))$
:= $2 \times (2 \times (22 + 2)^2 + (2 + 2 + 2)^2)$
:= $33/3 + (3^3 \times ((3+3) \times 3^3 - 3))$
:= $4 \times (((4 \times 4^4 + 44) + 4) + 4)$
:= $5^5 + (((5^5 - 5)/5 + 555)$
:= $6 + ((66 \times 66 - ((6+6)/6)^6) + 6)$
:= $(7/7 + 7) \times (7 \times 77 - 7/7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 8 + 8 + 8) + 8)$
:= $99/9 + (9 \times ((9+9) \times (9+9+9) - 9))$
- 4305 := $((1+1) \times (111 + ((1+1)^{11} - 1))) - 11$
:= $((22/2 + 2) + 2) \times (((22 + 2)^2) - 2)/2$
:= $3 + ((3+3) \times (3^{3+3} - (3 \times 3 + 3)))$
:= $4 + ((4 \times 4 + 4/4) \times ((4/4 - 4) + 4^4))$
:= $5^5 + (5^5/5 + 555)$
:= $(6 \times 6 - 6/6) \times ((666/6 + 6) + 6)$
:= $(77 \times (7 \times 7 + 7)) - 7$
:= $88 + (((8/8 + 8 \times 8)^{(8+8)/8}) - 8)$
:= $(99 + 9)/9 + (9 \times ((9+9) \times (9+9+9) - 9))$
- 4306 := $((1+1) \times (111 + (1+1)^{11})) - 1 - 11$
:= $(22 \times 222) - (((22 + 2)^2) + 2)$
:= $(3+3)^3 + ((3/3 + 3)^{3+3} - (3+3))$
:= $4^4 + ((4+4)^4 - ((4+4)/4 + 44))$
:= $5^5 + (((5^5 + 5)/5 + 555)$
:= $6 \times 6 \times 6 + (((6+6)/6)^{6+6}) - 6$
:= $7/7 + ((77 \times (7 \times 7 + 7)) - 7)$
:= $8 + (((8/8 + 8 \times 8) \times (((8+8)/8) + 8 \times 8)) + 8)$
:= $9 \times 9 + (((999 + 9)/(9+9)) + 9)^{(9+9)/9}$
- 4307 := $((1+1) \times (111 + (1+1)^{11})) - 11$
:= $222 + (2^{2 \times (2+2+2)} - 22/2)$
:= $((3+3) \times 3^{3+3}) - (((3/3 + 3)^3) + 3)$
:= $4^4 + (4+4)^4 - (44 + 4/4)$
:= $5^5 + (((5^5 + 5 + 5)/5 + 555)$
:= $6 + ((66 \times (66 - 6/6)) + (66/6))$
:= $(7+7)/7 + ((77 \times (7 \times 7 + 7)) - 7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 8 + 8 + 8) + (88/8))$
:= $((9/9 - 9) + 9 \times 9) \times (((9 \times 99 + 9)/(9+9)) + 9)$
- 4308 := $1 + (((1+1) \times (111 + (1+1)^{11})) - 11)$
:= $(22 \times 222) - ((22 + 2)^2)$
:= $(3+3) \times (3^{3+3} - 33/3)$
:= $4^4 + ((4+4)^4 - 44)$
:= $5 + (((5+5)/5 + 5) \times ((5^5 - 55)/5)) + 5$
:= $(6+6) \times (6 \times (66 - 6) - 6/6)$
:= $7 + ((77 \times (7 \times 7 + 7)) - (77/7))$
:= $88 + ((88 \times (88 + 8) - 8)/(8+8)/8)$
:= $(9 - ((9+9+9)/9)) \times (9 \times 9 \times 9 - (99/9))$
- 4309 := $((1+1) \times (1 + (111 + (1+1)^{11}))) - 11$
:= $(22 \times ((2^{2+2} - 2)^2)) - 2/2 - 2$
:= $(3+3)^3 + ((3/3 + 3)^{3+3} - 3)$
:= $4/4 + (((4+4)^4 - 44) + 4^4)$
:= $5 + (((5^5 - 5)/5 + 555) + 5^5)$
:= $66 \times 66 - (66/6 + 6 \times 6)$
:= $(77 \times (7 \times 7 + 7)) - (7 + 7 + 7)/7$
:= $8 + (((8 \times 8 - 88/8) \times ((8/8 - 8) + 88)) + 8)$
:= $((9/9 + 9) \times (((9+9)/9)^9 - 9 \times 9)) - 9/9$
- 4310 := $(1+1) \times ((11 \times (1+1+1+11))^{1+1}) - 1$
:= $(22 \times ((2^{2+2} - 2)^2)) - 2$
:= $((3+3) \times 3^{3+3}) - ((3/3 + 3)^3)$
:= $4^4 + (((4+4)/4 - 44) + (4 + 4)^4)$
:= $5 + ((5^5/5 + 555) + 5^5)$
:= $(6 - 66)/6 + (6 \times (6+6) \times (66 - 6))$
:= $(77 \times (7 \times 7 + 7)) - (7 + 7)/7$
:= $88 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) - ((8+8)/8))$
:= $(9/9 + 9) \times (((9+9)/9)^9 - 9 \times 9)$
- 4311 := $((1+1) \times (11 \times (1+1+1+11))^{1+1}) - 1$
:= $(22 \times ((2^{2+2} - 2)^2)) - 2/2$
:= $3 + ((3+3) \times (3^{3+3} - 33/3))$
:= $4 + ((4+4)^4 - (44 + 4/4) + 4^4)$
:= $5 + (((5^5 + 5)/5 + 555) + 5^5)$
:= $66 + (66 \times 66 - 666/6)$
:= $(77 \times (7 \times 7 + 7)) - 7/7$
:= $88 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) - 8/8)$
:= $9 + ((9 \times ((9+9) \times (9+9+9) - 9)) + 9)$
- 4312 := $(1+1) \times (11 \times (1+1+1+11))^{1+1}$
:= $22 \times ((2^{2+2} - 2)^2)$
:= $(3+3)^3 + (3/3 + 3)^{3+3}$
:= $4 + (((4+4)^4 - 44) + 4^4)$
:= $((5+5)/5 + 5) \times ((5^5 + 5)/5 - (5+5))$
:= $6 \times 6 \times 6 + (((6+6)/6)^{6+6})$
:= $77 \times (7 \times 7 + 7)$
:= $88 + (8 \times (8 \times 8 \times 8 + 8 + 8))$
:= $(9 - 9/9) \times (((9+9)/9)^9 + 9) + 9$

$$\begin{aligned}
\blacktriangleright 4313 &:= 1 + ((1 + 1) \times (11 \times (1 + 1 + 1 + 11)^{1+1})) \\
&:= 2/2 + (22 \times ((2^{2+2} - 2)^2)) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) - ((3/3 + 3)^3)) \\
&:= 4 + (((4 + 4)^4 - 44) + 4^4) + 4/4 \\
&:= (((5 + 5)/5 + 5) \times (5^5 - 5)/5) - 55 \\
&:= 66 \times 66 - ((6 \times 6 + 6/6) + 6) \\
&:= 7/7 + (77 \times (7 \times 7 + 7)) \\
&:= 88 + ((8/8 + 8 \times 8)^{(8+8)/8}) \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9 + 9) - 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4314 &:= (1 + 1) \times (111 + ((1 + 1)^{11} - (1 + 1))) \\
&:= 2 + (22 \times ((2^{2+2} - 2)^2)) \\
&:= (3 + 3) \times (((3 - 33)/3) + 3^{3+3}) \\
&:= (4 + 4)^4 + ((444/((4 + 4)/4)) - 4) \\
&:= 5 + (((5^5 - 5)/5 + 555) + 5^5) + 5 \\
&:= 66 \times 66 - (6 \times 6 + 6) \\
&:= (7 + 7)/7 + (77 \times (7 \times 7 + 7)) \\
&:= 8/8 + (((8/8 + 8 \times 8)^{(8+8)/8}) + 88) \\
&:= (9 - ((9 + 9 + 9)/9)) \times (9 \times 9 \times 9 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4315 &:= ((1 + 1) \times (111 + ((1 + 1)^{11} - 1))) - 1 \\
&:= 2 + (22 \times ((2^{2+2} - 2)^2)) + 2/2 \\
&:= 3 + ((3/3 + 3)^{3+3} + (3 + 3)^3) \\
&:= 44 + ((4 \times 44 - 4/4) + (4 + 4)^4) \\
&:= 5^5 + (5 \times (((5 - (5 + 5)/5)^5) - 5)) \\
&:= 6/6 + (66 \times 66 - (6 \times 6 + 6)) \\
&:= (7 + 7 + 7)/7 + (77 \times (7 \times 7 + 7)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8 + 8 + 8) + (88/8)) + 8) \\
&:= ((99 + 99)/9) + (9 \times ((9 + 9) \times (9 + 9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4316 &:= (1 + 1) \times (111 + ((1 + 1)^{11} - 1)) \\
&:= 2 \times ((2 \times 22)^2 + 222) \\
&:= ((3 \times 3 + 3/3) + 3) \times (333 - 3/3) \\
&:= 44 + (4 \times 44 + (4 + 4)^4) \\
&:= (5 - 5/5) \times ((5 - 5/5)^5 + 55) \\
&:= (6 + 6)/6 + (66 \times 66 - (6 \times 6 + 6)) \\
&:= 77/7 + ((77 \times (7 \times 7 + 7)) - 7) \\
&:= (8888/((8 + 8)/8)) - 8 \times (8 + 8) \\
&:= ((9 \times 9 - 9)/(9 + 9)) \times ((999 - 9/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4317 &:= ((1 + 1) \times (111 + (1 + 1)^{11})) - 1 \\
&:= 2/2 + (2 \times ((2 \times 22)^2 + 222)) \\
&:= ((3 + 3) \times (3^{3+3} - 3 \times 3)) - 3 \\
&:= 44 + ((4 \times 44 + (4 + 4)^4) + 4/4) \\
&:= 5 + (((5 + 5)/5 + 5) \times ((5^5 + 5)/5 - (5 + 5))) \\
&:= 66 \times 66 - ((66 \times 6/6) + 6) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) - ((7 + 7)/7)) \\
&:= 8/8 + ((8888/((8 + 8)/8)) - 8 \times (8 + 8)) \\
&:= 9 + ((9 - ((9 + 9 + 9)/9)) \times (9 \times 9 \times 9 - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4318 &:= (1 + 1) \times (111 + (1 + 1)^{11}) \\
&:= 222 + 2^{2 \times (2+2+2)} \\
&:= 3 + (((3/3 + 3)^{3+3} + (3 + 3)^3) + 3) \\
&:= (4 + 4)^4 + (444/((4 + 4)/4)) \\
&:= 5 + (((5 + 5)/5 + 5) \times (5^5 - 5)/5) - 55 \\
&:= 6 + (((6 + 6)/6)^{6+6}) + 6 \times 6 \times 6 \\
&:= 7 + ((77 \times (7 \times 7 + 7)) - 7/7) \\
&:= 88 + ((8 - (8 + 8)/8) \times (8 \times 88 + 8/8)) \\
&:= ((9 - 9/9) + 9) \times (9 \times (9 + 9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4319 &:= 1 + ((1 + 1) \times (111 + (1 + 1)^{11})) \\
&:= 2/2 + (2^{2 \times (2+2+2)} + 222) \\
&:= ((3 + 3) \times (3^{3+3} - 3 \times 3)) - 3/3 \\
&:= 4^4 + ((44/4 - 44) + (4 + 4)^4) \\
&:= 5^5 + (((5^5 - 5 + 5^5)/5) - 55) \\
&:= 66 \times 66 - (6 \times 6 + 6/6) \\
&:= 7 + (77 \times (7 \times 7 + 7)) \\
&:= (8 - 8/8) \times (88 \times (8 - 8/8) + 8/8) \\
&:= 9 + ((9/9 + 9) \times (((9 + 9)/9)^9) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4320 &:= (1 + 1) \times (1 + (111 + (1 + 1)^{11})) \\
&:= 2 + (2^{2 \times (2+2+2)} + 222) \\
&:= (3 + 3) \times (3^{3+3} - 3 \times 3) \\
&:= 4 \times ((4 \times (4^4 + 4) - 4) + 44) \\
&:= (55/5 + 5) \times (5 \times 55 - 5) \\
&:= 6 \times (6 + 6) \times (66 - 6) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) + 7/7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) + 88) \\
&:= (99 + 9) \times ((9 \times 9 \times 9 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4321 &:= 1 + ((1 + 1) \times (1 + (111 + (1 + 1)^{11}))) \\
&:= (2 \times 2222) - ((22/2)^2 + 2) \\
&:= 3/3 + ((3 + 3) \times (3^{3+3} - 3 \times 3)) \\
&:= 4/4 + ((4 \times (4 \times 4^4 - (4 + 4))) + 4^4) \\
&:= 5 + ((5 - 5/5) \times ((5 - 5/5)^5 + 55)) \\
&:= 6/6 + (6 \times (6 + 6) \times (66 - 6)) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) + ((7 + 7)/7)) \\
&:= 8 + (((8/8 + 8 \times 8)^{(8+8)/8}) + 88) \\
&:= 9 + ((9 - 9/9) \times (((9 + 9)/9)^9 + 9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4322 &:= (1 + 1) \times (1 + (1 + (111 + (1 + 1)^{11}))) \\
&:= 222 + (2 \times (2^{22/2} + 2)) \\
&:= 3 + (((3 + 3) \times (3^{3+3} - 3 \times 3)) - 3/3) \\
&:= 4 + ((444/((4 + 4)/4)) + (4 + 4)^4) \\
&:= 5^5 + (((5 + 5)/5) \times (5^5 + 5)/5) - 55 \\
&:= (6 + 6)/6 + (6 \times (6 + 6) \times (66 - 6)) \\
&:= ((77 - 7)/7) + (77 \times (7 \times 7 + 7)) \\
&:= 8 + (((8/8 + 8 \times 8)^{(8+8)/8}) + 88) + 8/8 \\
&:= 9 + (((9 \times ((9 + 9) \times (9 + 9 + 9) - 9)) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4323 &:= 11 \times ((1 + 1 + 1) \times ((11 \times (1 + 11)) - 1)) \\
&:= (2 \times 2222) - (22/2)^2 \\
&:= 3 + ((3 + 3) \times (3^{3+3} - 3 \times 3)) \\
&:= 4444 - ((44/4)^{(4+4)/4}) \\
&:= 5 \times 5 + (((5 + 5)/5 + 5) \times ((5^5 - 55)/5)) \\
&:= 66 \times 66 - (66 \times 6/6) + 6 \\
&:= 77/7 + (77 \times (7 \times 7 + 7)) \\
&:= 88 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) + (88/8)) \\
&:= 999/9 + ((9 + 9) \times (9 \times (9 + 9 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4324 &:= 1 + (11 \times ((1 + 1 + 1) \times ((11 \times (1 + 11)) - 1))) \\
&:= 2 + ((2 \times (2^{22/2} + 2)) + 222) \\
&:= 3 + (((3 + 3) \times (3^{3+3} - 3 \times 3)) + 3/3) \\
&:= 4 + ((4 \times (4 \times 4^4 - (4 + 4))) + 4^4) \\
&:= (5 - 5/5)^5 + 55 \times (55 + 5) \\
&:= 6 + (((6 + 6)/6)^{6+6}) + 6 \times 6 \times 6 + 6 \\
&:= (77 + 7)/7 + (77 \times (7 \times 7 + 7)) \\
&:= 8 + ((8888/((8 + 8)/8)) - 8 \times (8 + 8)) \\
&:= 99 + (((999 + 9)/(9 + 9)) + 9)^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4325 &:= ((1 + 1 + 1) \times (111 + 11^{1+1+1})) - 1 \\
&:= 2 + ((2 \times 2222) - (22/2)^2) \\
&:= 333 + ((3 \times (33/3)^3) - 3/3) \\
&:= 4^4 + ((4 + 4)^4 - (44/4 + 4 \times 4)) \\
&:= 5^5 + (5 + 5) \times (5 \times 5 \times 5 - 5) \\
&:= 6 + (66 \times 66 - (6 \times 6 + 6/6)) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) - 7/7) + 7) \\
&:= 88 + ((8 \times (8 \times 8 \times 8 + 8) - (88/8)) + 88) \\
&:= ((9 - 9 \times 99)/(9 + 9)) + 9 \times (9 + 9) \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4326 &:= (1 + 1 + 1) \times (111 + 11^{1+1+1}) \\
&:= 222 + (2 \times ((2^{22/2} + 2) + 2)) \\
&:= 333 + (3 \times (33/3)^3) \\
&:= 4 + (((444/((4 + 4)/4)) + (4 + 4)^4) + 4) \\
&:= 5^5 + ((5 + 5) \times (5 \times 5 \times 5 - 5) + 5/5) \\
&:= 6 + (6 \times (6 + 6) \times (66 - 6)) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) + 7) \\
&:= (8 - 8/8) \times (((8 + 8)/8) - 88) + 8 \times 88 \\
&:= (9 - (9 + 9)/9) \times (9 \times 9 \times 9 - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4327 &:= 1 + ((1 + 1 + 1) \times (111 + 11^{1+1+1})) \\
&:= 2 \times (2222 + 2) - (22/2)^2 \\
&:= 3/3 + ((3 \times (33/3)^3) + 333) \\
&:= ((4 \times 4 + 4/4) \times (4^4 - 4/4)) - 4 - 4 \\
&:= (((5 + 5)/5 + 5) \times (5^5 + 5)/5) - 55 \\
&:= 6 + ((6 \times (6 + 6) \times (66 - 6)) + 6/6) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + 7/7) + 7) \\
&:= 8 + ((8 - 8/8) \times (88 \times (8 - 8/8) + 8/8)) \\
&:= 9 + (((9 - 9/9) + 9) \times (9 \times (9 + 9 + 9) + (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4328 &:= ((1+1+1) \times (111 \times (1+1+11))) - 1 \\
&:= 22^2 + ((2^{2+2+2} - 2)^2) \\
&:= (33/3)^3 + 3 \times 3 \times 333 \\
&:= 44 + ((4^4 - 4) \times (4 \times 4 + 4/4)) \\
&:= (((5+5)/5+5) \times ((5^5 - 5)/5 - 5)) - 5 \\
&:= 6 + ((6 \times (6+6) \times (66 - 6)) + ((6+6)/6)) \\
&:= (7/7 + 7) \times (7 \times 77 + ((7+7)/7)) \\
&:= (8 \times (8 \times (88 - 8) - 88)) - 88 \\
&:= 9 + (((9/9+9) \times (((9+9)/9)^9) - 9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4329 &:= (1+1+1) \times (111 \times (1+1+11)) \\
&:= (2/2+2)^2 \times (22^2 - (2/2+2)) \\
&:= 333 \times ((3 \times 3 + 3/3) + 3) \\
&:= 444/4 \times (44 - (4/4+4)) \\
&:= 5 + (55 \times (55+5) + (5 - 5/5)^5) \\
&:= (6 \times 6 + 6/6) \times (666/6 + 6) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + (77 - 7)/7)) \\
&:= 8 + (((8/8+8 \times 8)^{(8+8)/8}) + 88) + 8 \\
&:= 9 + ((99+9) \times ((9 \times 9 \times 9 - 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4330 &:= 1 + ((1+1+1) \times (111 \times (1+1+11))) \\
&:= 2 + (((2^{2+2+2} - 2)^2) + 22^2) \\
&:= 3/3 + (333 \times ((3 \times 3 + 3/3) + 3)) \\
&:= 4^4 + ((4+4)^4 - (44/((4+4)/4))) \\
&:= 5 + ((5+5) \times (5 \times 5 \times 5 - 5) + 5^5) \\
&:= ((66 - 6)/6) + (6 \times (6+6) \times (66 - 6)) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + (77/7))) \\
&:= 8 \times 8 + ((8 - (8+8)/8) \times ((8 \times 88 - 8/8) + 8)) \\
&:= 9 \times (9+9) + ((9 - 9/9) \times (((9+9)/9)^9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4331 &:= 1 + (1 + ((1+1+1) \times (111 \times (1+1+11)))) \\
&:= (2 \times 2222) - (222/2 + 2) \\
&:= 3 + (3 \times 3 \times 333 + (33/3)^3) \\
&:= ((4 \times 4 + 4/4) \times (4^4 - 4/4)) - 4 \\
&:= ((55/5 + 55)^{(5+5)/5}) - 5 \times 5 \\
&:= 66/6 + (6 \times (6+6) \times (66 - 6)) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + (77+7)/7)) \\
&:= ((8 \times 8 - 8/8) + 8) \times ((8 \times 8 - 88/8) + 8) \\
&:= (9 \times 9 - (9/9+9)) \times (9 \times 9 - (99/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4332 &:= (1+1+1) \times (1 + (111 \times (1+1+11))) \\
&:= (2/2+2) \times ((2+2+2)^2 + 2)^2 \\
&:= 3 \times 333 + 3333 \\
&:= 4^4 + ((4+4)^4 - (4 \times 4 + 4)) \\
&:= 5 + (((5+5)/5+5) \times ((5^5 + 5)/5) - 55) \\
&:= 6 + ((6 \times (6+6) \times (66 - 6)) + 6) \\
&:= (77 - 7/7) \times ((7/7 + 7 \times 7) + 7) \\
&:= ((88 + 8)/8) \times ((88/8 + 8)^{(8+8)/8}) \\
&:= 999 + (9999/((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4333 &:= ((1+1) \times ((1+1) \times 1111)) - 111 \\
&:= (2 \times 2222) - 222/2 \\
&:= 3333 + ((3 \times 3 + 3/3)^3) \\
&:= 4444 - 444/4 \\
&:= ((5+5)/5+5) \times ((5^5 - 5)/5 - 5) \\
&:= 66 \times 66 - ((66/6+6) + 6) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + 7) + 7) \\
&:= (8888/((8+8)/8)) - 888/8 \\
&:= ((9 \times (9 \times (99+9) - 9)) - 9/9)/((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4334 &:= 1 + (((1+1) \times ((1+1) \times 1111)) - 111) \\
&:= (2^{2+2+2} + 2)^2 - 22 \\
&:= ((3+3) \times (3^{3+3} - (3+3))) - (3/3+3) \\
&:= 4444 + ((4 - 444)/4) \\
&:= 5^5 + ((55 \times (55+55) - 5)/5) \\
&:= 66/6 \times (6 \times 66 - ((6+6)/6)) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + 7/7) + 7) + 7 \\
&:= (888 - 8)/8 + (8 \times (8 \times 8 \times 8 + 8)) \\
&:= ((99+99)/9) \times ((99 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4335 &:= (1+1+1) \times (1 + (1 + (111 \times (1+1+11)))) \\
&:= 2 + ((2 \times 2222) - 222/2) \\
&:= ((3+3) \times (3^{3+3} - (3+3))) - 3 \\
&:= (4 \times 4 + 4/4) \times (4^4 - 4/4) \\
&:= 5 \times ((5^5 - 5)/(5+5) + 555) \\
&:= 6 + ((6 \times 6 + 6/6) \times (666/6 + 6)) \\
&:= 7 + (((7/7 + 7) \times (7 \times 77 + ((7+7)/7))) \\
&:= 888/8 + (8 \times (8 \times 8 \times 8 + 8)) \\
&:= (9 \times (((9+9)/9)^9) - (9+9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4336 &:= (1+1) \times (11^{1+1} + ((1+1)^{11} - 1)) \\
&:= 2 + ((2^{2+2+2} + 2)^2 - 22) \\
&:= 3 + (((3 \times 3 + 3/3)^3) + 3333) \\
&:= 4 \times (4 \times (4^4 + 4) + 44) \\
&:= 5^5 + ((55 \times (55+55) + 5)/5) \\
&:= 66 \times 66 - (((6+6)/6 + 6 + 6) + 6) \\
&:= (7/7 + 7) \times (((7+7+7)/7) + 7 \times 7) \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 8) + 88) \\
&:= ((9+9+9) \times (9 \times (9+9) - 9/9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4337 &:= ((1+1) \times (11^{1+1} + (1+1)^{11})) - 1 \\
&:= (22^2 - 2)/2 + 2^{2 \times (2+2+2)} \\
&:= ((3+3) \times (3^{3+3} - (3+3))) - 3/3 \\
&:= 4 + (4444 - 444/4) \\
&:= 5^5 + ((5+5)/5 \times ((55 \times 55 + 5)/5)) \\
&:= 66 \times 66 - ((6/6+6+6) + 6) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + (77/7)) + 7) \\
&:= 8/8 + ((8 \times (8 \times 8 \times 8 + 8) + 88) + 88) \\
&:= ((9+9+9) \times (9 \times (9+9) - 9/9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4338 &:= (1+1) \times (11^{1+1} + (1+1)^{11}) \\
&:= (2/2+2)^2 \times (22^2 - 2) \\
&:= (3+3) \times (3^{3+3} - (3+3)) \\
&:= (4+4)^4 + 44 \times 44/(4+4) \\
&:= 5 + (((5+5)/5+5) \times ((5^5 - 5)/5 - 5)) \\
&:= 6 \times (((6 \times 6)/(6+6))^6) - 6 \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + (77+7)/7) + 7) \\
&:= (8 - (8+8)/8) \times ((88/8 + 8 \times 88) + 8) \\
&:= (9+9) \times (9 \times (9+9+9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4339 &:= 1 + ((1+1) \times (11^{1+1} + (1+1)^{11})) \\
&:= 2/2 + ((2/2+2)^2 \times (22^2 - 2)) \\
&:= 3/3 + ((3+3) \times (3^{3+3} - (3+3))) \\
&:= 4 + ((4 \times 4 + 4/4) \times (4^4 - 4/4)) \\
&:= 5^5 + ((5 \times ((5 - (5+5)/5)^5)) - 5/5) \\
&:= 66 \times 66 - (66/6 + 6) \\
&:= 7 + (((77 - 7/7) \times ((7/7 + 7 \times 7) + 7)) \\
&:= ((8/8 - 8 \times 8) \times ((88/8 - 88) + 8)) - 8 \\
&:= 9/9 + ((9+9) \times (9 \times (9+9+9) - ((9+9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4340 &:= (1+1) \times (1 + (11^{1+1} + (1+1)^{11})) \\
&:= 2 + ((2/2+2)^2 \times (22^2 - 2)) \\
&:= ((3+3) \times 3^{3+3}) - 3/3 - 33 \\
&:= 4 + (4 \times (4 \times 4^4 - 4) + 4^4) \\
&:= 5^5 + (5 \times ((5 - (5+5)/5)^5)) \\
&:= (6 - 66)/6 + (66 \times 66 - 6) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + 7) + 7) + 7 \\
&:= (((8+8)/8) + 8 \times 8)^{(8+8)/8} - 8 - 8 \\
&:= (9 - (9+9)/9) \times (((9+9)/9)^9 + 99) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4341 &:= 1 + ((1+1) \times (1 + (11^{1+1} + (1+1)^{11}))) \\
&:= 2 + (((2/2+2)^2 \times (22^2 - 2)) + 2/2) \\
&:= ((3+3) \times 3^{3+3}) - 33 \\
&:= 4^4 + ((4+4)^4 - 44/4) \\
&:= 5^5 + ((5 \times ((5 - (5+5)/5)^5)) + 5/5) \\
&:= 66 \times 66 + (6 - 6 \times 6)/((6+6)/6) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + 7/7) + 7) + 7) + 7 \\
&:= 8 \times 8 \times 8 \times 8 + ((8+8) \times (8+8) - (88/8)) \\
&:= ((9+9+9)/9) \times (9 \times 9 \times (9+9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4342 &:= (1+1+11) \times (1 + (1+1+1) \times 111) \\
&:= 2 + (((2/2+2)^2 \times (22^2 - 2)) + 2) \\
&:= 3/3 + (((3+3) \times 3^{3+3}) - 33) \\
&:= 4^4 + ((4 - 44)/4 + (4+4)^4) \\
&:= (((5+5)/5+5) \times ((5^5 + 5)/5 - 5)) - 5 \\
&:= 66 \times 66 - ((6+6)/6 + 6 + 6) \\
&:= ((77 - 77/7)^{(7+7)/7}) - (7+7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8) + 888 - 8)/8) \\
&:= 9 + (((9 \times (9 \times (99+9) - 9)) - 9/9)/((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4343 &:= 1 + ((1 + 1 + 11) \times (1 + (1 + 1 + 1) \times 111)) \\
&:= 222/2 + (2 \times (2 \times 22 + 2)^2) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) - (3/3 + 33)) \\
&:= 4^4 + (4 + 4)^4 - (4/4 + 4 + 4) \\
&:= (((5 + 5)/5 + 5) \times (5^5 - 5)/5) - 5 \times 5 \\
&:= 66 \times 66 - (6/6 + 6 + 6) \\
&:= 7 + ((7/7 + 7) \times (((7 + 7 + 7)/7) + 7 \times 77)) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 8 + 8)) + 888/8) \\
&:= ((9 - 9/9) \times (99 \times 99 - 9)/(9 + 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4344 &:= (1 + 11) \times ((11 \times (11 \times (1 + 1 + 1))) - 1) \\
&:= 2 \times (2222 - ((2 \times (22 + 2)) + 2)) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) - 33) \\
&:= 4^4 + ((4 + 4)^4 - (4 + 4)) \\
&:= (5 - 5/5) \times (5555/5 - 5 \times 5) \\
&:= 66 \times 66 - 6 - 6 \\
&:= (7/7 + 7) \times ((7 \times 77 - 7) + (77/7)) \\
&:= 8 \times 8 \times 8 \times 8 + ((8 + 8) \times (8 + 8) - 8) \\
&:= ((9 + 9 + 9)/9) \times (9 \times 9 \times (9 + 9) - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4345 &:= 11 \times ((11 \times ((1 + 1 + 1) \times (1 + 11))) - 1) \\
&:= (2^{2+2+2} + 2)^2 - 22/2 \\
&:= ((3 + 3) \times (3^{3+3} - 3)) - 33/3 \\
&:= 4 + (((4 + 4)^4 - 44/4) + 4^4) \\
&:= 55 \times ((55 - 5/5) + 5 \times 5) \\
&:= 66 \times 66 - 66/6 \\
&:= 7777/7 + 77 \times (7 \times 7 - 7) \\
&:= ((8/8 - 88) + 8) \times ((8/8 - 8 \times 8) + 8) \\
&:= 99/9 \times (((9 + 9)/9)^9) - (99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4346 &:= 1 + (11 \times ((11 \times ((1 + 1 + 1) \times (1 + 11))) - 1)) \\
&:= ((2 - 22)/2) + (2^{2+2+2} + 2)^2 \\
&:= ((3 + 3) \times 3^{3+3}) - (3^3 + 3/3) \\
&:= 4^4 + ((4 + 4)^4 - ((4 + 4)/4 + 4)) \\
&:= 5^5 + 55/5 \times 555/5 \\
&:= (6 - 66)/6 + 66 \times 66 \\
&:= ((7 + 7)/7) \times (((7 + 7 + 7)/7)^7 - (7 + 7)) \\
&:= (8 \times 8 - 88/8) \times (((8 + 8)/8) - 8) + 88 \\
&:= ((9 + 9 + 9) \times (9 \times (9 + 9) - 9/9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4347 &:= (11 - 1 - 1) \times (((11 + 11)^{1+1}) - 1) \\
&:= (2/2 + 2)^2 \times (22^2 - 2/2) \\
&:= ((3 + 3) \times 3^{3+3}) - 3^3 \\
&:= 4^4 + ((4 + 4)^4 - (4/4 + 4)) \\
&:= ((5 + 5)/5 + 5) \times ((5^5 + 5)/5 - 5) \\
&:= 66 \times 66 + (((6 - 66) + 6)/6) \\
&:= 7 \times 7 + ((77 \times (7 \times 7 + 7)) - (7 + 7)) \\
&:= (8/8 - 8 \times 8) \times ((88/8 - 88) + 8) \\
&:= (9 + 9 + 9) \times (9 \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4348 &:= 1 + ((11 - 1 - 1) \times (((11 + 11)^{1+1}) - 1)) \\
&:= 2 \times (2 \times ((22/2 + 22)^2 - 2)) \\
&:= 3/3 + (((3 + 3) \times 3^{3+3}) - 3^3) \\
&:= 4^4 + ((4 + 4)^4 - 4) \\
&:= 5 + (((5 + 5)/5 + 5) \times (5^5 - 5)/5) - 5 \times 5 \\
&:= 66 \times 66 - ((6 + 6)/6 + 6) \\
&:= (7 \times (7 \times (77 + 7 + 7))) - 777/7 \\
&:= (((8 + 8)/8) + 8 \times 8)^{(8+8)/8} - 8 \\
&:= 9/9 + ((9 + 9 + 9) \times (9 \times (9 + 9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4349 &:= 11 + ((1 + 1) \times (11^{1+1} + (1 + 1)^{11})) \\
&:= 2 + ((2/2 + 2)^2 \times (22^2 - 2/2)) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) - (3^3 + 3/3)) \\
&:= 4/4 + (((4 + 4)^4 - 4) + 4^4) \\
&:= 5^5 + ((5 \times (5 \times 5 \times (5 + 5) - 5)) - 5/5) \\
&:= 66 \times 66 - 6/6 - 6 \\
&:= ((77 - 77/7)^{(7+7)/7}) - 7 \\
&:= 8/8 + (((8 + 8)/8) + 8 \times 8)^{(8+8)/8} - 8 \\
&:= (9 + 9)/9 + ((9 + 9 + 9) \times (9 \times (9 + 9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4350 &:= (11 - 1) \times ((1 + 1 + 1) \times (1 + (1 + 11)^{1+1})) \\
&:= (2^{2+2+2} + 2)^2 - 2 - 2 - 2 \\
&:= 3 + (((3 + 3) \times 3^{3+3}) - 3^3) \\
&:= 4^4 + ((4 + 4)^4 - (4 + 4)/4) \\
&:= 5 \times ((5 \times (5 \times (5 \times 5 + 5) + 5)) - 5) \\
&:= 66 \times 66 - 6 \\
&:= 7 \times 7 + ((77 \times (7 \times 7 + 7)) - (77/7)) \\
&:= ((8 + 8)/8) \times (((8 + 8) \times (8 \times (8 + 8) + 8)) - 8/8) \\
&:= (9/9 + 9) \times ((9 + 9) \times (9 + 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4351 &:= 1 + ((11 - 1) \times ((1 + 1 + 1) \times (1 + (1 + 11)^{1+1}))) \\
&:= (2^{2+2+2} + 2)^2 - 2/2 - 2 - 2 \\
&:= 3 + (((3 + 3) \times 3^{3+3}) - 3^3) + 3/3 \\
&:= 4^4 + ((4 + 4)^4 - 4/4) \\
&:= ((55/5 + 55)^{(5+5)/5}) - 5 \\
&:= 6/6 + (66 \times 66 - 6) \\
&:= 7 + ((7/7 + 7) \times ((7 \times 77 - 7) + (77/7))) \\
&:= 8 \times 8 \times 8 \times 8 + ((8 + 8) \times (8 + 8) - 8/8) \\
&:= 9999/9 + ((9 + 9) \times (99 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4352 &:= (1 + 1) \times ((1 + 1) \times ((11 \times (1 + 1 + 1))^{1+1} - 1)) \\
&:= (2^{2+2+2} + 2)^2 - 2 - 2 \\
&:= (3/3 + 3) \times (33 \times 33 - 3/3) \\
&:= 4^4 + (4 + 4)^4 \\
&:= 5 + (((5 + 5)/5 + 5) \times ((5^5 + 5)/5 - 5)) \\
&:= (6 + 6)/6 + (66 \times 66 - 6) \\
&:= (7/7 + 7) \times ((7 \times 77 - ((7 + 7)/7)) + 7) \\
&:= 8 \times ((8 \times 8 \times 8 + 8 + 8 + 8) + 8) \\
&:= (9 - 9/9) \times (99 \times 99 - 9)/(9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4353 &:= (1 + 1 + 1) \times ((11 \times (11 \times (1 + 11))) - 1) \\
&:= (2^{2+2+2} + 2)^2 - 2/2 - 2 \\
&:= ((3 + 3) \times (3^{3+3} - 3)) - 3 \\
&:= 4/4 + ((4 + 4)^4 + 4^4) \\
&:= 5^5 + ((5 + 5)/5 \times (5^5 - 55)/5) \\
&:= 66 \times 66 - 6 \times 6/(6 + 6) \\
&:= 7 \times 7 + ((7/7 + 7) \times (7 \times 77 - 7/7)) \\
&:= 8/8 + (8 \times 8 \times 8 \times 8 + (8 + 8) \times (8 + 8)) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - ((99 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4354 &:= (((1 + 1) \times (11 \times (1 + 1 + 1)))^{1+1}) - 1 - 1 \\
&:= (2^{2+2+2} + 2)^2 - 2 \\
&:= 3/3 + (((3 + 3) \times (3^{3+3} - 3)) - 3) \\
&:= 4^4 + ((4 + 4)^4 + (4 + 4)/4) \\
&:= 5^5 + (((55 \times 55 - 5) + 5^5)/5) \\
&:= 66 \times 66 - (6 + 6)/6 \\
&:= 7 \times 7 + ((77 \times (7 \times 7 + 7)) - 7) \\
&:= 8 \times 8 + ((8/8 + 8 \times 8) \times (((8 + 8)/8) + 8 \times 8)) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4355 &:= (((1 + 1) \times (11 \times (1 + 1 + 1)))^{1+1}) - 1 \\
&:= (2^{2+2+2} + 2)^2 - 2/2 \\
&:= ((3 + 3) \times (3^{3+3} - 3)) - 3/3 \\
&:= 4 + (((4 + 4)^4 - 4/4) + 4^4) \\
&:= 5 + ((5 \times (5 \times 5 \times (5 + 5) - 5)) + 5^5) \\
&:= 66 \times 66 - 6/6 \\
&:= 7/7 + (((77 \times (7 \times 7 + 7)) - 7) + 7 \times 7) \\
&:= (8/8 + 8 \times 8) \times ((88/8 - 8) + 8 \times 8) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4356 &:= ((1 + 1) \times (11 \times (1 + 1 + 1)))^{1+1} \\
&:= (2^{2+2+2} + 2)^2 \\
&:= (3 + 3) \times (3^{3+3} - 3) \\
&:= 4 + ((4 + 4)^4 + 4^4) \\
&:= (55/5 + 55)^{(5+5)/5} \\
&:= 66 \times 66 \\
&:= (77 - 77/7)^{(7+7)/7} \\
&:= (((8 + 8)/8) + 8 \times 8)^{(8+8)/8} \\
&:= (9 + 9) \times (9 \times (9 + 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4357 &:= 1 + (((1 + 1) \times (11 \times (1 + 1 + 1)))^{1+1}) \\
&:= 2/2 + (2^{2+2+2} + 2)^2 \\
&:= 3/3 + ((3 + 3) \times (3^{3+3} - 3)) \\
&:= 4 + (((4 + 4)^4 + 4/4) + 4^4) \\
&:= 5^5 + (55/5 \times (555 + 5)/5) \\
&:= 6/6 + 66 \times 66 \\
&:= 7/7 + ((77 - 77/7)^{(7+7)/7}) \\
&:= 8/8 + (((8 + 8)/8) + 8 \times 8)^{(8+8)/8} \\
&:= 9/9 + ((9 + 9) \times (9 \times (9 + 9 + 9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4358 &:= 1 + (1 + (((1 + 1) \times (11 \times (1 + 1 + 1)))^{1+1})) \\
&:= 2 + (2^{2+2+2} + 2)^2 \\
&:= 3 + (((3 + 3) \times (3^{3+3} - 3)) - 3/3) \\
&:= 4 + (((4 + 4)^4 + (4 + 4)/4 + 4^4) \\
&:= (((5 + 5)/5 + 5) \times (5^5 - 5)/5) - 5 - 5 \\
&:= (6 + 6)/6 + 66 \times 66 \\
&:= 7 \times 7 + ((77 \times (7 \times 7 + 7)) - ((7 + 7 + 7)/7)) \\
&:= (8 + 8)/8 + (((8 + 8)/8) + 8 \times 8)^{(8+8)/8} \\
&:= (9 + 9)/9 + ((9 + 9) \times (9 \times (9 + 9 + 9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4359 &:= (1 + 1 + 1) \times (1 + (11 \times (11 \times (1 + 11)))) \\
&:= 2 + ((2^{2+2+2} + 2)^2 + 2/2) \\
&:= 3 + ((3 + 3) \times (3^{3+3} - 3)) \\
&:= 4 + (((4 + 4)^4 - 4/4 + 4^4) + 4) \\
&:= 5^5 + (((5^5 - 55) + 5^5)/5) - 5 \\
&:= 66 \times 66 + (6 \times 6/(6 + 6)) \\
&:= 7 \times 7 + ((77 \times (7 \times 7 + 7)) - ((7 + 7)/7)) \\
&:= 8 + ((8 \times 8 \times 8 \times 8 - 8/8) + (8 + 8) \times (8 + 8)) \\
&:= ((9 - ((9 + 9 + 9)/9)) \times (9 \times 9 \times 9 - 9/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4360 &:= (1 + 1) \times ((1 + 1)^{11} + (11 \times (1 + 11))) \\
&:= 2 + ((2^{2+2+2} + 2)^2 + 2) \\
&:= 3 + (((3 + 3) \times (3^{3+3} - 3)) + 3/3) \\
&:= 4 + (((4 + 4)^4 + 4^4) + 4) \\
&:= 5 + (((5 \times (5 \times 5 \times (5 + 5) - 5)) + 5^5) + 5) \\
&:= 6 + (66 \times 66 - ((6 + 6)/6)) \\
&:= 7 \times 7 + ((77 \times (7 \times 7 + 7)) - 7/7) \\
&:= 8 + (8 \times 8 \times 8 \times 8 + (8 + 8) \times (8 + 8)) \\
&:= (9 - 9/9) \times ((99 \times 99 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4361 &:= 1 + ((1 + 1) \times ((1 + 1)^{11} + (11 \times (1 + 11)))) \\
&:= 2 + (((2^{2+2+2} + 2)^2 + 2/2) + 2) \\
&:= 3 + (((3 + 3) \times (3^{3+3} - 3)) - 3/3) + 3 \\
&:= 4 + (((4 + 4)^4 + 4/4 + 4^4) + 4) \\
&:= 5 + (((55/5 + 55)^{(5+5)/5}) \\
&:= 6 + (66 \times 66 - 6/6) \\
&:= 7 \times ((7 \times 77 + 77) + 7) \\
&:= (8 - 8/8) \times (888/8 + 8 \times 8 \times 8) \\
&:= 9 + ((9 - 9/9) \times (99 \times 99 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4362 &:= (1 + 1) \times (1 + ((1 + 1)^{11} + (11 \times (1 + 11)))) \\
&:= 2 + (((2^{2+2+2} + 2)^2 + 2) + 2) \\
&:= 3 + (((3 + 3) \times (3^{3+3} - 3)) + 3) \\
&:= 4 + ((44 - 4)/4 + (4 + 4)^4) \\
&:= 5 + (((55/5 + 55)^{(5+5)/5}) + 5/5) \\
&:= 6 + 66 \times 66 \\
&:= 7/7 + ((77 \times (7 \times 7 + 7)) + 7 \times 7) \\
&:= 8 + (((8/8 + 8 \times 8) \times (((8 + 8)/8) + 8 \times 8)) + 8 \times 8) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4363 &:= 1 + ((1 + 1) \times (1 + ((1 + 1)^{11} + (11 \times (1 + 11)))) \\
&:= (2 \times 2222) - (2/2 + 2)^{2+2} \\
&:= ((3 + 3) \times 3^{3+3}) - 33/3 \\
&:= 4^4 + (44/4 + (4 + 4)^4) \\
&:= (((5 + 5)/5 + 5) \times (5^5 - 5)/5) - 5 \\
&:= 6 + (66 \times 66 + 6/6) \\
&:= 7 + ((77 - 77/7)^{(7+7)/7}) \\
&:= 8 + ((8/8 + 8 \times 8) \times ((88/8 - 8) + 8 \times 8)) \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4364 &:= ((11 - 1 - 1) \times (1 + ((11 + 11)^{1+1}))) - 1 \\
&:= 2 \times (2222 + (2 \times (2 - 22))) \\
&:= ((3 - 33)/3) + ((3 + 3) \times 3^{3+3}) \\
&:= 4 + (((4 + 4)^4 + 4^4) + 4) + 4 \\
&:= 5^5 + (((5^5 - 55) + 5^5)/5) \\
&:= 6 + (66 \times 66 + ((6 + 6)/6)) \\
&:= 7 + (((77 - 77/7)^{(7+7)/7}) + 7/7) \\
&:= 8 + (((8 + 8)/8) + 8 \times 8)^{(8+8)/8} \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4365 &:= (11 - 1 - 1) \times (1 + ((11 + 11)^{1+1})) \\
&:= (2/2 + 2)^2 \times (22^2 + 2/2) \\
&:= ((3 + 3) \times 3^{3+3}) - 3 \times 3 \\
&:= ((4 \times 4 + 4/4) \times (4/4 + 4^4)) - 4 \\
&:= 5^5 + (5 \times (((5 - (5 + 5)/5)^5) + 5)) \\
&:= 6 + (66 \times 66 + (6 \times 6/(6 + 6))) \\
&:= 7 \times 7 + (((77 \times (7 \times 7 + 7)) - 7) + (77/7)) \\
&:= 8 + (((8 + 8)/8) + 8 \times 8)^{(8+8)/8} + 8/8 \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4366 &:= 1 + ((11 - 1 - 1) \times (1 + ((11 + 11)^{1+1}))) \\
&:= 2 + ((2^{2+2+2} + 2)^2 + 2 \times (2 + 2)) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) - 33/3) \\
&:= 4 + (((44 - 4)/4 + (4 + 4)^4) + 4^4) \\
&:= 5 + (((55/5 + 55)^{(5+5)/5}) + 5) \\
&:= ((66 - 6)/6) + 66 \times 66 \\
&:= ((7/7 + 7) \times (7 \times 77 + 7)) - (7 + 7)/7 \\
&:= (((8 + 8)/8) \times ((88/8 - 8)^{8-8/8})) - 8 \\
&:= 9/9 + (9 \times (9 + 9) \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4367 &:= 11 + (((1 + 1) \times (11 \times (1 + 1 + 1)))^{1+1}) \\
&:= 22/2 + (2^{2+2+2} + 2)^2 \\
&:= 33/3 + ((3 + 3) \times (3^{3+3} - 3)) \\
&:= 4 + ((44/4 + (4 + 4)^4) + 4^4) \\
&:= 5^5 + ((5 + 5)/5 \times ((5^5 + 5)/5 - 5)) \\
&:= 66/6 + 66 \times 66 \\
&:= ((7/7 + 7) \times (7 \times 77 + 7)) - 7/7 \\
&:= 88/8 + (((8 + 8)/8) + 8 \times 8)^{(8+8)/8} \\
&:= (9 + 9)/9 + (9 \times (9 + 9) \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4368 &:= (1 + 1 + 1) \times ((1 + 1 + 11) \times (1 + 111)) \\
&:= 2 \times ((2222 + (2 \times (2 - 22))) + 2) \\
&:= (3 + 3) \times (3^{3+3} - 3/3) \\
&:= 4 \times ((4 \times (4 \times 4 + 4^4)) + 4) \\
&:= ((5 + 5)/5 + 5) \times (5^5 - 5)/5 \\
&:= 6 + (66 \times 66 + 6) \\
&:= (7/7 + 7) \times (7 \times 77 + 7) \\
&:= (8 \times 8 - 8) \times ((8 - 88)/8 + 88) \\
&:= (9 - ((9 + 9 + 9)/9)) \times (9 \times 9 \times 9 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4369 &:= 1 + ((1 + 1 + 1) \times ((1 + 1 + 11) \times (1 + 111))) \\
&:= 2 + ((2^{2+2+2} + 2)^2 + 22/2) \\
&:= 3/3 + ((3 + 3) \times (3^{3+3} - 3/3)) \\
&:= (4 \times 4 + 4/4) \times (4/4 + 4^4) \\
&:= 5^5 + (((5^5 - 5 + 5^5)/5) - 5) \\
&:= 6 + ((66 \times 66 + 6/6) + 6) \\
&:= 7/7 + ((7/7 + 7) \times (7 \times 77 + 7)) \\
&:= (8/8 + 8 + 8) \times ((8 + 8) \times (8 + 8) + 8/8) \\
&:= 9 + ((9 - 9/9) \times ((99 \times 99 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4370 &:= (1 + 1) \times (((1 + 1 + 11)^{1+1+1}) - (1 + 11)) \\
&:= 2 \times (((2/2 + 2)^{2/2+2+2+2}) - 2) \\
&:= ((3 + 3) \times 3^{3+3}) - (3/3 + 3) \\
&:= 4 \times 4 + (((4 + 4)^4 + (4 + 4)/4 + 4^4) \\
&:= 5^5 + (5 \times 5 \times 5 \times (5 + 5) - 5) \\
&:= 6 + ((66 \times 66 + ((6 + 6)/6)) + 6) \\
&:= 7 + (((77 - 77/7)^{(7+7)/7}) + 7) \\
&:= (((8 + 8)/8) + 8) \times (8 \times (8 \times 8 - 8) - (88/8)) \\
&:= (9/9 + 9) \times (((9 \times 9 \times 99 + 9)/(9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4371 &:= (1 + 1 + 1) \times (1 + ((1 + 1 + 11) \times (1 + 111))) \\
&:= 2 + (((2^{2+2+2} + 2)^2 + 22/2) + 2) \\
&:= ((3 + 3) \times 3^{3+3}) - 3 \\
&:= (((4 - 4/4) + 4) \times (4/4 + 4^4)) - 4 \\
&:= 5^5 + (((5^5 + 5^5 + 5)/5) - 5) \\
&:= 6 + ((66 \times 66 + (6 \times 6/(6 + 6))) + 6) \\
&:= 77 + ((77 \times (7 \times 7 + 7)) - (77/7 + 7)) \\
&:= 8 + (((8/8 + 8 \times 8) \times ((88/8 - 8) + 8 \times 8)) + 8) \\
&:= ((9 + 9 + 9)/9) \times (9 \times 9 \times (9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4372 &:= (1 + 1) \times (((1 + 1 + 11)^{1+1+1}) - 11) \\
&:= 2 \times (2222 - (2 + 2 + 2)^2) \\
&:= 3/3 + (((3 + 3) \times 3^{3+3}) - 3) \\
&:= 4 + (((4 + 4)^4 + 4 \times 4) + 4^4) \\
&:= 5^5 + (((5 + 5)/5 \times (5^5 + 5)/5) - 5) \\
&:= 6 + (((66 - 6)/6) + 66 \times 66) \\
&:= 7 \times 7 + ((77 \times (7 \times 7 + 7)) + (77/7)) \\
&:= 8 + (((8 + 8)/8) + 8 \times 8)^{(8+8)/8} + 8 \\
&:= 9 \times (9 + 9) \times (9 + 9 + 9) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4373 &:= 1 + ((1+1) \times (((1+1+11)^{1+1+1}) - 11)) \\
&:= ((2/2+2)^2 \times (22^2+2)) - 2/2 \\
&:= (3+3) \times 3^{3+3} - 3/3 \\
&:= 4 + ((4 \times 4 + 4/4) \times (4/4 + 4^4)) \\
&:= 5 + (((5+5)/5+5) \times (5^5-5)/5) \\
&:= 6 + (66 \times 66 + (66/6)) \\
&:= (((7+7)/7) \times ((7+7+7)/7)^7) - 7/7 \\
&:= 8 + (((((8+8)/8) + 8 \times 8)^{(8+8)/8}) + 8/8) + 8) \\
&:= 9 \times (9+9) \times (9+9+9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4374 &:= (1+1) \times ((1+1+1)^{1+(1+1) \times (1+1+1)}) \\
&:= (2/2+2)^2 \times (22^2+2) \\
&:= (3+3) \times 3^{3+3} \\
&:= 4^4 + ((44/((4+4)/4)) + (4+4)^4) \\
&:= 5^5 + ((5^5-5+5^5)/5) \\
&:= 6 \times ((6 \times 6/(6+6))^6) \\
&:= ((7+7)/7) \times ((7+7+7)/7)^7 \\
&:= ((8+8)/8) \times ((88/8-8)^{8-8/8}) \\
&:= 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4375 &:= 1 + ((1+1) \times ((1+1+1)^{1+(1+1) \times (1+1+1)})) \\
&:= 2/2 + ((2/2+2)^2 \times (22^2+2)) \\
&:= 3/3 + ((3+3) \times 3^{3+3}) \\
&:= ((4-4/4)+4) \times (4/4+4)^4 \\
&:= 5 \times (5 \times (5 \times ((5 \times 5+5)+5))) \\
&:= 6/6 + (6 \times ((6 \times 6/(6+6))^6)) \\
&:= 7 + ((7/7+7) \times (7 \times 77+7)) \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 8 + 8 + 8) - 8/8) \\
&:= 9/9 + 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4376 &:= (1+1) \times (1 + ((1+1+1)^{1+(1+1) \times (1+1+1)})) \\
&:= 2 + ((2/2+2)^2 \times (22^2+2)) \\
&:= 3 + (((3+3) \times 3^{3+3}) - 3/3) \\
&:= 4444 - (4 \times 4 \times 4 + 4) \\
&:= 5^5 + ((5^5+5^5+5)/5) \\
&:= (6+6)/6 + (6 \times ((6 \times 6/(6+6))^6)) \\
&:= (7/7+7) \times ((7 \times 77+7/7)+7) \\
&:= 8 \times ((8888-8)/(8+8)-8) \\
&:= (9+9)/9 + 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4377 &:= (11 \times (((1+1) \times (11-1))^{1+1} - (1+1))) - 1 \\
&:= ((22 \times ((22-2)^2 - 2)) - 2)/2 \\
&:= 3 + ((3+3) \times 3^{3+3}) \\
&:= ((4-4^4)/4) + (4444-4) \\
&:= 5^5 + ((5+5)/5 \times (5^5+5)/5) \\
&:= 66 \times 66 + ((6 \times 6+6)/(6+6)/6) \\
&:= (7 \times (777+7)) - 7777/7 \\
&:= 8 + ((8/8+8+8) \times ((8+8) \times (8+8)+8/8)) \\
&:= (9+9+9)/9 + 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4378 &:= 11 \times (((1+1) \times (11-1))^{1+1} - (1+1)) \\
&:= 22 + (2^{2+2+2} + 2)^2 \\
&:= 3 + (((3+3) \times 3^{3+3}) + 3/3) \\
&:= 4444 - ((4^4+4+4)/4) \\
&:= 5 + (((5+5)/5+5) \times (5^5-5)/5) + 5) \\
&:= 66/6 \times (((6+6)/6) + 6 \times 66) \\
&:= 77 + ((77 \times (7 \times 7+7)) - (77/7)) \\
&:= 88 + ((8/8+8 \times 8) \times (((8+8)/8) + 8 \times 8)) \\
&:= ((9+9)/9) \times (9 \times 9 \times (9+9+9) + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4379 &:= 1 + (11 \times (((1+1) \times (11-1))^{1+1} - (1+1))) \\
&:= ((22 \times ((22-2)^2 - 2)) + 2)/2 \\
&:= 3 + (((3+3) \times 3^{3+3}) - 3/3) + 3) \\
&:= 4444 - (4^4+4)/4 \\
&:= 5 + (((5^5-5+5^5)/5) + 5^5) \\
&:= 6 + ((66 \times 66 + (66/6)) + 6) \\
&:= 77/7 + ((7/7+7) \times (7 \times 77+7)) \\
&:= (8888/((8+8)/8)) - (8/8+8 \times 8) \\
&:= ((9 \times 9+9)/(9+9)) + 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4380 &:= (1+1) \times ((11-1) \times (((1+1) \times (111-1)) - 1)) \\
&:= 2 + ((2^{2+2+2} + 2)^2 + 22) \\
&:= 3 + (((3+3) \times 3^{3+3}) + 3) \\
&:= 4444 - 4 \times 4 \times 4 \\
&:= 5 + (5 \times 5 \times 5 \times (5+5) + 5^5) \\
&:= 6 + (6 \times ((6 \times 6/(6+6))^6)) \\
&:= 7 + (((7+7)/7) \times ((7+7+7)/7)^7) - 7/7) \\
&:= (8888/((8+8)/8)) - 8 \times 8 \\
&:= (9 - ((9+9+9)/9)) \times (9 \times 9 \times 9 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4381 &:= (1+1+11) \times (1 + ((1+1+1) \times (1+11))) \\
&:= 2 + (((22 \times ((22-2)^2 - 2)) + 2)/2) \\
&:= 3 + (((3+3) \times 3^{3+3}) + 3/3) + 3) \\
&:= ((4-4^4)/4) + 4444 \\
&:= 5 + (((5^5+5^5+5)/5) + 5^5) \\
&:= 6 + ((6 \times ((6 \times 6/(6+6))^6)) + 6/6) \\
&:= 7 + (((7+7)/7) \times ((7+7+7)/7)^7) \\
&:= 8/8 + ((8888/((8+8)/8)) - 8 \times 8) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4382 &:= (1+1) \times ((1+1)^{11} + (11 \times (1+1+1))) \\
&:= 2 + (((2^{2+2+2} + 2)^2 + 22) + 2) \\
&:= 3 \times 3 + (((3+3) \times 3^{3+3}) - 3/3) \\
&:= 4444 + (((4-4^4)+4)/4) \\
&:= ((5+5)/5+5) \times (5^5+5)/5 \\
&:= 6 + ((6 \times ((6 \times 6/(6+6))^6)) + ((6+6)/6)) \\
&:= 77 + ((77 \times (7 \times 7+7)) - 7) \\
&:= 8 + (((8+8)/8) \times ((88/8-8)^{8-8/8})) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4383 &:= ((1+1) \times ((1+1+11)^{1+1+1})) - 11 \\
&:= (2/2+2)^2 \times ((22^2+2/2)+2) \\
&:= 3 \times 3 + ((3+3) \times 3^{3+3}) \\
&:= 4 + (4444 - (4^4+4)/4) \\
&:= 5^5 + ((5+5)/5 \times ((5^5-5)/5+5)) \\
&:= 66 \times 66 + ((66 \times 6/(6+6)) - 6) \\
&:= 7 + ((7/7+7) \times ((7 \times 77+7/7)+7)) \\
&:= (8/8+8) \times (8 \times 8 \times 8 - (8/8+8+8+8)) \\
&:= 9+9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4384 &:= (1+1) \times ((1+1)^{11} + (1+11)^{1+1}) \\
&:= 2 \times ((2 \times 22)^2 + 2^{2 \times (2+2)}) \\
&:= 3 \times 3 + (((3+3) \times 3^{3+3}) + 3/3) \\
&:= 4 + (4444 - 4 \times 4 \times 4) \\
&:= (55/5+5) \times (5 \times 55 - 5/5) \\
&:= 6 + (((66+66)/6) + 66 \times 66) \\
&:= (7/7+7) \times ((7 \times 77 + ((7+7)/7)) + 7) \\
&:= 8 \times (88 \times 88/(8+8) + 8 \times 8) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4385 &:= 1 + ((1+1) \times ((1+1)^{11} + (1+11)^{1+1})) \\
&:= 2 + ((2/2+2)^2 \times ((22^2+2/2)+2)) \\
&:= 33/3 + ((3+3) \times 3^{3+3}) \\
&:= 4 + (((4-4^4)/4) + 4444) \\
&:= 5 + ((5 \times 5 \times 5 \times (5+5) + 5^5) + 5) \\
&:= 6 \times 6 + (66 \times 66 - (6/6+6)) \\
&:= 7 + (((77 \times (7 \times 7+7)) - (77/7)) + 77) \\
&:= 8/8 + (8 \times (88 \times 88/(8+8) + 8 \times 8)) \\
&:= 99/9 + 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4386 &:= (1+1) \times (1 + ((1+1)^{11} + (1+11)^{1+1})) \\
&:= (2 \times ((2 \times (22+2))^2) - 222) \\
&:= 3 + (((3+3) \times 3^{3+3}) + 3 \times 3) \\
&:= (4 \times 4 + 4/4) \times ((4+4)/4 + 4^4) \\
&:= 5^5 + (((55+5^5)+5^5)/5) \\
&:= 6 \times 6 + (66 \times 66 - 6) \\
&:= 7 + (((7/7+7) \times (7 \times 77+7)) + (77/7)) \\
&:= (8/8+8+8) \times ((8+8) \times (8+8) + ((8+8)/8)) \\
&:= (99+9)/9 + 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4387 &:= (11 \times (((1+1) \times (11-1))^{1+1} - 1)) - 1 - 1 \\
&:= (22/2 \times ((22-2)^2 - 2/2)) - 2 \\
&:= 3 + (((3+3) \times 3^{3+3}) + 3 \times 3) + 3/3) \\
&:= 4 + ((4444 - (4^4+4)/4) + 4) \\
&:= 5 + (((5+5)/5+5) \times (5^5+5)/5) \\
&:= 6 \times 6 + ((66 \times 66 - 6) + 6/6) \\
&:= 77 + ((77 \times (7 \times 7+7)) - ((7+7)/7)) \\
&:= 8 + ((8888/((8+8)/8)) - (8/8+8 \times 8)) \\
&:= ((99+9+9)/9) + 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4388 &:= (11 \times (((1+1) \times (11-1))^{1+1} - 1)) - 1 \\
&:= 2 + ((2 \times ((2 \times (22+2))^2) - 222) \\
&:= 3 + (((3+3) \times 3^{3+3}) + 33/3) \\
&:= 4 + ((4444 - 4 \times 4 \times 4) + 4) \\
&:= 55 \times (5 \times 5 + 55) - (55+5)/5 \\
&:= 6 \times 6 + ((66 \times 66 - 6) + ((6+6)/6)) \\
&:= 77 + ((77 \times (7 \times 7 + 7)) - 7/7) \\
&:= 8 + ((8888/(8+8)/8) - 8 \times 8) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) + ((9 \times 9+9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4389 &:= 11 \times (((1+1) \times (11-1))^{1+1} - 1) \\
&:= 22/2 \times ((22-2)^2 - 2/2) \\
&:= ((3+3) \times (3^{3+3} + 3)) - 3 \\
&:= 4444 - 44/4 - 44 \\
&:= ((5+5)/5+5) \times (5^5 + 5+5)/5 \\
&:= 66 \times 66 + (66 \times 6/(6+6)) \\
&:= 77 + (77 \times (7 \times 7 + 7)) \\
&:= (88/8 - 88) \times (8 - (8/8 + 8 \times 8)) \\
&:= 9 + ((9 - ((9+9+9)/9)) \times (9 \times 9 \times 9 + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4390 &:= 1 + (11 \times (((1+1) \times (11-1))^{1+1} - 1)) \\
&:= 2 \times (((22/2+2)^{2/2+2}) - 2) \\
&:= 3/3 + (((3+3) \times (3^{3+3} + 3)) - 3) \\
&:= 4 + ((4 \times 4 + 4/4) \times ((4+4)/4 + 4^4)) \\
&:= 55 \times (5 \times 5 + 55) - 5 - 5 \\
&:= 6 \times 6 + (66 \times 66 - ((6+6)/6)) \\
&:= 7/7 + ((77 \times (7 \times 7 + 7)) + 77) \\
&:= ((8+8)/8) \times (((88/8 - 8)^{8-8/8}) + 8) \\
&:= 9 + ((9 \times (9+9) \times (9+9+9) - ((9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4391 &:= ((1+1) \times (((1+1+11)^{1+1+1}) - 1)) - 1 \\
&:= 2 + (22/2 \times ((22-2)^2 - 2/2)) \\
&:= ((3+3) \times (3^{3+3} + 3)) - 3/3 \\
&:= 4444 + ((44 - 4^4)/4) \\
&:= 5 + (((55+5^5) + 5^5)/5) + 5^5 \\
&:= 6 \times 6 + (66 \times 66 - 6/6) \\
&:= 77 + ((77 \times (7 \times 7 + 7)) + ((7+7)/7)) \\
&:= (8 \times 8 - 8) \times (88 - 8) - (8/8 + 88) \\
&:= 9 + ((9 \times (9+9) \times (9+9+9) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4392 &:= (1+1) \times (((1+1+11)^{1+1+1}) - 1) \\
&:= 2 \times (2222 - (22+2+2)) \\
&:= (3+3) \times (3^{3+3} + 3) \\
&:= 44 + (((4+4)^4 - 4) + 4^4) \\
&:= 5 + (((5+5)/5+5) \times (5^5 + 5)/5) + 5 \\
&:= 6 \times (666 + 66) \\
&:= (7/7 + 7) \times (((77-7)/7) + 7 \times 77) \\
&:= (8 \times 8 - 8) \times (88 - 8) - 88 \\
&:= 9 + (9 \times (9+9) \times (9+9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4393 &:= ((1+1) \times ((1+1+11)^{1+1+1})) - 1 \\
&:= (2 \times ((22/2+2)^{2/2+2}) - 2)/2 \\
&:= 3/3 + (((3+3) \times (3^{3+3} + 3)) \\
&:= 4 + (4444 - (44/4 + 44)) \\
&:= 5 \times 5 + (((5+5)/5+5) \times (5^5 - 5)/5) \\
&:= 6 \times 6 + (66 \times 66 + 6/6) \\
&:= ((7/7+7) \times (7 \times 77 + (77/7))) - 7 \\
&:= 8/8 + ((8 \times 8 - 8) \times (88 - 8) - 88) \\
&:= 9 + ((9 \times (9+9) \times (9+9+9) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4394 &:= (1+1) \times ((1+1+11)^{1+1+1}) \\
&:= 2 \times ((22/2+2)^{2/2+2}) \\
&:= 3 + (((3+3) \times (3^{3+3} + 3)) - 3/3) \\
&:= 44 + (((4+4)^4 - (4+4)/4) + 4^4) \\
&:= 55 \times (5 \times 5 + 55) - (5/5+5) \\
&:= 6 \times 6 + (66 \times 66 + ((6+6)/6)) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) - ((7+7)/7)) + 77) \\
&:= (8+8)/8 + ((8 \times 8 - 8) \times (88 - 8) - 88) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4395 &:= 1 + ((1+1) \times ((1+1+11)^{1+1+1})) \\
&:= 2/2 + (2 \times ((22/2+2)^{2/2+2})) \\
&:= 3 + ((3+3) \times (3^{3+3} + 3)) \\
&:= 44 + (((4+4)^4 - 4/4) + 4^4) \\
&:= 55 \times (5 \times 5 + 55) - 5 \\
&:= 6 + ((66 \times 6/(6+6)) + 66 \times 66) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) - 7/7) + 77) \\
&:= ((8 - 88/8) + 8) \times (888 - 8/8 - 8) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) + (99+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4396 &:= (1+1) \times (1 + ((1+1+11)^{1+1+1})) \\
&:= 2 \times (2222 - (22+2)) \\
&:= 3 + (((3+3) \times (3^{3+3} + 3)) + 3/3) \\
&:= 44 + ((4+4)^4 + 4^4) \\
&:= 5/5 + (55 \times (5 \times 5 + 55) - 5) \\
&:= 6 + ((66 \times 66 - ((6+6)/6)) + 6 \times 6) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) + 77) \\
&:= (8888 - (88+8))/(8+8)/8) \\
&:= ((9+9)/9) \times (9 \times 9 \times (9+9+9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4397 &:= 1 + ((1+1) \times (1 + ((1+1+11)^{1+1+1}))) \\
&:= (22 \times (22-2)^2 - 2)/2 - 2 \\
&:= 3 + (((3+3) \times (3^{3+3} + 3)) - 3/3) + 3 \\
&:= 44 + (((4+4)^4 + 4/4) + 4^4) \\
&:= 5^5 + ((5+5)/5 \times ((55+5^5)/5)) \\
&:= 6 + ((66 \times 66 - 6/6) + 6 \times 6) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + 77) + 7/7) \\
&:= 8 + ((88/8 - 88) \times (8 - (8/8 + 8 \times 8))) \\
&:= ((9 \times 999 + 9/9)/(9+9)/9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4398 &:= (1+1) \times (1 + (1 + ((1+1+11)^{1+1+1}))) \\
&:= 2 \times (2222 - 22) - 2 \\
&:= 3 + (((3+3) \times (3^{3+3} + 3)) + 3) \\
&:= 4444 - ((4+4)/4 + 44) \\
&:= 55 \times (5 \times 5 + 55) - (5+5)/5 \\
&:= 6 + (66 \times 66 + 6 \times 6) \\
&:= 7 + (((77 \times (7 \times 7 + 7)) + ((7+7)/7)) + 77) \\
&:= ((88 - 8) \times (8 \times 8 - (8/8 + 8))) - (8+8)/8 \\
&:= ((9+9+9)/9) \times ((9 \times 9 \times (9+9) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4399 &:= (11 \times ((1+1) \times (11-1))^{1+1}) - 1 \\
&:= (22 \times (22-2)^2 - 2)/2 \\
&:= 3 + (((3+3) \times (3^{3+3} + 3)) + 3/3) + 3 \\
&:= 4444 - (44 + 4/4) \\
&:= 55 \times (5 \times 5 + 55) - 5/5 \\
&:= 6 + ((66 \times 66 + 6 \times 6) + 6/6) \\
&:= (7 \times ((7 \times (77 + 7 + 7)) - 7)) - 77/7 \\
&:= ((88 - 8) \times (8 \times 8 - (8/8 + 8))) - 8/8 \\
&:= ((9+9+9) \times (9 \times (9+9) + 9/9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4400 &:= 11 \times ((1+1) \times (11-1))^{1+1} \\
&:= 2 \times (2222 - 22) \\
&:= 3^3 + (((3+3) \times 3^{3+3}) - 3/3) \\
&:= 4444 - 44 \\
&:= 55 \times (5 \times 5 + 55) \\
&:= 6 + ((66 \times 66 + ((6+6)/6)) + 6 \times 6) \\
&:= (7/7 + 7) \times (7 \times 77 + (77/7)) \\
&:= (88 - 8) \times (8 \times 8 - (8/8 + 8)) \\
&:= (9/9 + 9) \times (((9+9)/9)^9 - 9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4401 &:= 1 + (11 \times ((1+1) \times (11-1))^{1+1}) \\
&:= (22 \times (22-2)^2 + 2)/2 \\
&:= 3^3 + ((3+3) \times 3^{3+3}) \\
&:= 4/4 + (4444 - 44) \\
&:= 5/5 + 55 \times (5 \times 5 + 55) \\
&:= 666/6 + (66 \times (66 - 6/6)) \\
&:= ((7+7)/7 + 7) \times (7 \times (77 - 7) - 7/7) \\
&:= 8/8 + ((88 - 8) \times (8 \times 8 - (8/8 + 8))) \\
&:= (9+9+9) \times (9 \times (9+9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4402 &:= 1 + (1 + (11 \times ((1+1) \times (11-1))^{1+1})) \\
&:= 2 + 2 \times (2222 - 22) \\
&:= 3^3 + (((3+3) \times 3^{3+3}) + 3/3) \\
&:= (4+4)/4 + (4444 - 44) \\
&:= (5+5)/5 + 55 \times (5 \times 5 + 55) \\
&:= 6 \times 6 + (((66 - 6)/6) + 66 \times 66) \\
&:= ((7+7)/7) \times (((7+7+7)/7)^7 + 7) + 7) \\
&:= (8 \times 8 - ((8+8)/8)) \times ((8 \times 8 - 8/8) + 8) \\
&:= 9/9 + ((9+9+9) \times (9 \times (9+9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4403 &:= 1 + (1 + (1 + (11 \times ((1 + 1) \times (11 - 1))^{1+1}))) \\
&:= 2 + (22 \times (22 - 2)^2 + 2)/2 \\
&:= 33/3 + ((3 + 3) \times (3^{3+3} + 3)) \\
&:= 4 + 4444 - (44 + 4/4) \\
&:= ((5 + 5)/5 + 5) \times ((5^5 - 5)/5 + 5) \\
&:= 6 \times 6 + (66 \times 66 + (66/6)) \\
&:= (7 \times ((7 \times (77 + 7 + 7)) - 7)) - 7 \\
&:= (8 - 8/8) \times (8 \times (88 - 8) - (88/8)) \\
&:= 9 + ((9 \times (9 + 9) \times (9 + 9 + 9) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4404 &:= (1 + 1) \times ((1 + 1) \times (1 + (1111 - 11))) \\
&:= 2 \times (2222 - 22 + 2) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) + 3^3) \\
&:= 4 + (4444 - 44) \\
&:= 5 + (55 \times (5 \times 5 + 55) - 5/5) \\
&:= 6 + ((66 \times 66 + 6 \times 6) + 6) \\
&:= 7/7 + ((7 \times ((7 \times (77 + 7 + 7)) - 7)) - 7) \\
&:= ((8888 - 88) + 8)/(8 + 8)/8 \\
&:= 999/9 + (9 \times (9 + 9) \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4405 &:= 11 + ((1 + 1) \times ((1 + 1 + 11)^{1+1+1})) \\
&:= 2 + 2 + (22 \times (22 - 2)^2 + 2)/2 \\
&:= 3 + (((3 + 3) \times 3^{3+3}) + 3^3) + 3/3 \\
&:= 4 + ((4444 - 44) + 4/4) \\
&:= 5 + 55 \times (5 \times 5 + 55) \\
&:= 6 + (((66 \times 66 + 6 \times 6) + 6/6) + 6) \\
&:= 7 \times 7 + ((77 - 77/7)^{(7+7)/7}) \\
&:= (8 \times (8 \times (88 - 8) - 88)) - 88/8 \\
&:= ((9 \times 9 + 9)/(9 + 9)) \times (9 \times 99 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4406 &:= 1 + (11 + ((1 + 1) \times ((1 + 1 + 11)^{1+1+1}))) \\
&:= 2 + (2 \times (2222 - 22 + 2)) \\
&:= 33 + (((3 + 3) \times 3^{3+3}) - 3/3) \\
&:= 4 + ((4444 - 44) + (4 + 4)/4) \\
&:= 5 + (55 \times (5 \times 5 + 55) + 5/5) \\
&:= 6 + (((66 \times 66 + ((6 + 6)/6)) + 6 \times 6) + 6) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) - 7)) - (77/7)) \\
&:= (8 - 88)/8 + (8 \times (8 \times (88 - 8) - 88)) \\
&:= 9 + (((9 \times 999 + 9/9)/(9 + 9)/9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4407 &:= 11 + ((1 + 1) \times (1 + ((1 + 1 + 11)^{1+1+1}))) \\
&:= (((2 \times ((2 \times 22) + 2)) + 2)^2 - 22)/2 \\
&:= 33 + ((3 + 3) \times 3^{3+3}) \\
&:= 4 + (4444 - (44 + 4/4) + 4) \\
&:= 5 + (55 \times (5 \times 5 + 55) + ((5 + 5)/5)) \\
&:= 6 + ((66 \times (66 - 6/6)) + 666/6) \\
&:= 7 + ((7/7 + 7) \times (7 \times 77 + (77/7))) \\
&:= (8 \times (8 \times (88 - 8) - 88)) - (8/8 + 8) \\
&:= ((9 + 9 + 9)/9) \times (9 \times 9 \times (9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4408 &:= (1 + 1) \times ((1 + 1) \times (1 + (1 + (1111 - 11)))) \\
&:= 2 \times ((2222 - 22 + 2) + 2) \\
&:= 3/3 + (((3 + 3) \times 3^{3+3}) + 33) \\
&:= 4 + ((4444 - 44) + 4) \\
&:= 5 + (((5 + 5)/5 + 5) \times ((5^5 - 5)/5 + 5)) \\
&:= ((6 + 6)/6)^6 + (66 \times 66 - 6 - 6) \\
&:= (7/7 + 7) \times ((77 + 7)/7 + 7 \times 77) \\
&:= (8 \times (8 \times (88 - 8) - 88)) - 8 \\
&:= (9 - 9/9) \times ((9999 - 9 \times 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4409 &:= ((11 - 1) \times ((11 + (11 - 1))^{1+1})) - 1 \\
&:= (22/2 \times ((22 - 2)^2 + 2/2)) - 2 \\
&:= ((3 + 3) \times ((3^{3+3} + 3) + 3)) - 3/3 \\
&:= 4 + (((4444 - 44) + 4/4) + 4) \\
&:= 5 + ((55 \times (5 \times 5 + 55) - 5/5) + 5) \\
&:= (6 \times (((6 \times 6/(6 + 6))^6) + 6)) - 6/6 \\
&:= (7 \times ((7 \times (77 + 7 + 7)) - 7)) - 7/7 \\
&:= 8/8 + ((8 \times (8 \times (88 - 8) - 88)) - 8) \\
&:= 9 + ((9/9 + 9) \times (((9 + 9)/9)^9) - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4410 &:= (11 - 1) \times ((11 + (11 - 1))^{1+1}) \\
&:= (2 \times (2 + 2) + 2) \times ((22 - 2/2)^2) \\
&:= (3 + 3) \times ((3^{3+3} + 3) + 3) \\
&:= 4444 + ((44 - 4)/4 - 44) \\
&:= 5 + (55 \times (5 \times 5 + 55) + 5) \\
&:= 6 \times (((6 \times 6/(6 + 6))^6) + 6) \\
&:= 7 \times ((7 \times (77 + 7 + 7)) - 7) \\
&:= (8/8 - 8 \times 8) \times (((8 + 8)/8) - (8 \times 8 + 8)) \\
&:= 9 + ((9 + 9 + 9) \times (9 \times (9 + 9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4411 &:= 11 \times (1 + ((1 + 1) \times (11 - 1))^{1+1}) \\
&:= 22/2 \times ((22 - 2)^2 + 2/2) \\
&:= 3/3 + ((3 + 3) \times ((3^{3+3} + 3) + 3)) \\
&:= 44/4 + (4444 - 44) \\
&:= 55/5 + 55 \times (5 \times 5 + 55) \\
&:= 66 + (66 \times 66 - (66/6)) \\
&:= 7/7 + (7 \times ((7 \times (77 + 7 + 7)) - 7)) \\
&:= 88/8 \times (8 \times 8 \times 8 - 888/8) \\
&:= 9 + (((9 + 9 + 9) \times (9 \times (9 + 9) + 9/9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4412 &:= 1 + (11 \times (1 + ((1 + 1) \times (11 - 1))^{1+1})) \\
&:= 2 \times (2222 - 2^2 + 2) \\
&:= 3 + (((3 + 3) \times ((3^{3+3} + 3) + 3)) - 3/3) \\
&:= 4444 - 4 \times (4 + 4) \\
&:= ((55 + 5)/5) + 55 \times (5 \times 5 + 55) \\
&:= 66 + (((6 - 66)/6) + 66 \times 66) \\
&:= (7 + 7)/7 + (7 \times ((7 \times (77 + 7 + 7)) - 7)) \\
&:= (8888 - 8 \times 8)/(8 + 8)/8 \\
&:= 99/9 + ((9 + 9 + 9) \times (9 \times (9 + 9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4413 &:= 1 + (1 + (11 \times (1 + ((1 + 1) \times (11 - 1))^{1+1}))) \\
&:= 2 + (22/2 \times ((22 - 2)^2 + 2/2)) \\
&:= 3 + ((3 + 3) \times ((3^{3+3} + 3) + 3)) \\
&:= 4/4 + (4444 - 4 \times (4 + 4)) \\
&:= 5 + (((5 + 5)/5 + 5) \times ((5^5 - 5)/5 + 5)) + 5 \\
&:= 66 + (((6 - 66) + 6)/6) + 66 \times 66 \\
&:= (7 + 7 + 7)/7 + (7 \times ((7 \times (77 + 7 + 7)) - 7)) \\
&:= 8 + ((8 \times (8 \times (88 - 8) - 88)) - (88/8)) \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9 + 9) - 9)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4414 &:= (1 + 1) \times (11 + (((1 + 1 + 11)^{1+1+1}) - 1)) \\
&:= 2 + (2 \times (2222 - 2^{2+2})) \\
&:= 3 + (((3 + 3) \times ((3^{3+3} + 3) + 3)) + 3/3) \\
&:= 4^4 + ((4^4 - 4 - 4)/4 + (4 + 4)^4) \\
&:= 5 + (((55 \times (5 \times 5 + 55) - 5/5) + 5) + 5) \\
&:= ((6 + 6)/6)^6 + (66 \times 66 - 6) \\
&:= 7 + (((7/7 + 7) \times (7 \times 77 + (77/7))) + 7) \\
&:= (8 \times (8 \times (88 - 8) - 88)) - (8 + 8)/8 \\
&:= ((9 \times (9 \times (99 + 9) + 9)) - 9/9)/(9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4415 &:= ((1 + 1) \times (11 + ((1 + 1 + 11)^{1+1+1}))) - 1 \\
&:= (((((2 \times ((2 \times 22) + 2)) + 2)^2) - 2)/2) - 2 \\
&:= 3 + (((3 + 3) \times ((3^{3+3} + 3) + 3)) - 3/3) + 3 \\
&:= 4^4 + (((4^4 - 4)/4) + (4 + 4)^4) \\
&:= 5 + ((55 \times (5 \times 5 + 55) + 5) + 5) \\
&:= 66 + (66 \times 66 - (6/6 + 6)) \\
&:= 7 + ((7/7 + 7) \times ((77 + 7)/7 + 7 \times 77)) \\
&:= (8 \times (8 \times (88 - 8) - 88)) - 8/8 \\
&:= ((9 \times 9 + 9)/(9 + 9)) \times ((9 \times 99 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4416 &:= (1 + 1) \times (11 + ((1 + 1 + 11)^{1+1+1})) \\
&:= 2 \times ((2222 - 2^{2+2}) + 2) \\
&:= 3 + (((3 + 3) \times ((3^{3+3} + 3) + 3)) + 3) \\
&:= 4 \times (4 \times ((4 \times 4 + 4^4) + 4)) \\
&:= 5^5 + (((5/5 + 5)^{5-5/5}) - 5) \\
&:= 66 + (66 \times 66 - 6) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) - 7)) - 7/7) \\
&:= 8 \times (8 \times (88 - 8) - 88) \\
&:= (9 \times (((9 + 9)/9)^9) - 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4417 &:= 1 + ((1 + 1) \times (11 + ((1 + 1 + 11)^{1+1+1}))) \\
&:= (((2 \times ((2 \times 22) + 2)) + 2)^2) - 2)/2 \\
&:= ((3 + 3) \times (3^{3+3} + 3 \times 3)) - 33/3 \\
&:= 4/4 + ((4 \times 4 \times (4^4 + 4)) + 4^4) \\
&:= ((5 + 5)/5 + 5) \times ((5^5 + 5)/5 + 5) \\
&:= 66 + ((66 \times 66 - 6) + 6/6) \\
&:= 7 + (7 \times ((7 \times (77 + 7 + 7)) - 7)) \\
&:= 8/8 + (8 \times (8 \times (88 - 8) - 88)) \\
&:= (9 - (9 + 9)/9) \times ((9 \times 9 \times 9 - 99) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4418 &:= (1+1) \times (((1+1) \times (1111-1)) - 11) \\
&:= 2 \times (((2 \times 22 + 2/2) + 2)^2) \\
&:= 3^3 + (((3+3) \times (3^{3+3} + 3)) - 3/3) \\
&:= 4^4 + (((4^4 + 4 + 4)/4) + (4 + 4)^4) \\
&:= 55 + (((5+5)/5 + 5) \times (5^5 - 5)/5) - 5) \\
&:= 66 + ((66 \times 66 - 6) + ((6+6)/6)) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) - 7)) + 7/7) \\
&:= (8+8)/8 + (8 \times (8 \times (88 - 8) - 88)) \\
&:= (9 \times (((9+9)/9)^9) - 9) - (9/9 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4419 &:= 1 + ((1+1) \times (((1+1) \times (1111-1)) - 11)) \\
&:= (((2 \times ((2 \times 22) + 2)) + 2)^2) + 2/2 \\
&:= 3^3 + ((3+3) \times (3^{3+3} + 3)) \\
&:= ((4^4 + 4) \times (4 \times 4 + 4/4)) - 4/4 \\
&:= 5^5 + (((5-5/5)^5 - 5) + 5 \times 55) \\
&:= 66 + (66 \times 66 - (6 \times 6/(6+6))) \\
&:= ((7+7)/7 + 7) \times (7 \times (77 - 7) + 7/7) \\
&:= 8 + (88/8 \times (8 \times 8 - 888/8)) \\
&:= 9 \times (((9 \times 999 + 9)/(9+9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4420 &:= (1+1) \times ((11-1) \times ((1+1) \times 111 - 1)) \\
&:= (2-22) \times (2/2 - 222) \\
&:= 3^3 + (((3+3) \times (3^{3+3} + 3)) + 3/3) \\
&:= (4^4 + 4) \times (4 \times 4 + 4/4) \\
&:= 5 \times 5 + (55 \times (5 \times 5 + 55) - 5) \\
&:= ((6+6)/6)^6 + 66 \times 66 \\
&:= ((77-7)/7) + (7 \times ((7 \times (77 + 7 + 7)) - 7)) \\
&:= 8 + ((8888 - 8 \times 8)/(8+8)/8) \\
&:= 9/9 + (9 \times (((9 \times 999 + 9)/(9+9)) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4421 &:= ((1+1) \times (((1+1) \times 1111) - 11)) - 1 \\
&:= (2 \times 2222) - 22 - 2/2 \\
&:= 33/3 + ((3+3) \times ((3^{3+3} + 3) + 3)) \\
&:= 4/4 + ((4^4 + 4) \times (4 \times 4 + 4/4)) \\
&:= 5^5 + (((5/5 + 5)^{5-5/5}) + 5^5) \\
&:= 66 + (66 \times 66 - 6/6) \\
&:= 77/7 + (7 \times ((7 \times (77 + 7 + 7)) - 7)) \\
&:= (8/8 + 8) \times (8 \times 8 \times 8 - 88/8) - 88 \\
&:= 9 + (((9+9+9) \times (9 \times (9+9) + 9/9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4422 &:= (1+1) \times (((1+1) \times 1111) - 11) \\
&:= (2 \times 2222) - 22 \\
&:= 33 \times 33 + 3333 \\
&:= 4444 - (44/((4+4)/4)) \\
&:= 5 + (((5+5)/5 + 5) \times ((5^5 + 5)/5 + 5)) \\
&:= 66 + 66 \times 66 \\
&:= (77 \times (7 \times 7 + 7)) + (777 - 7)/7 \\
&:= 8 + ((8 \times (8 \times (88 - 8) - 88)) - ((8+8)/8)) \\
&:= (9 - ((9+9+9)/9)) \times ((9 \times 9 \times 9 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4423 &:= 1 + ((1+1) \times (((1+1) \times 1111) - 11)) \\
&:= 2/2 + ((2 \times 2222) - 22) \\
&:= 3/3 + (33 \times 33 + 3333) \\
&:= 4444 - ((4 \times 4 + 4/4) + 4) \\
&:= 55 + (((5+5)/5 + 5) \times (5^5 - 5)/5) \\
&:= 66 + (66 \times 66 + 6/6) \\
&:= 777/7 + (77 \times (7 \times 7 + 7)) \\
&:= 8 + ((8 \times (8 \times (88 - 8) - 88)) - 8/8) \\
&:= 9 + (((9 \times (9 \times (99 + 9) + 9)) - 9/9)/(9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4424 &:= (1+1) \times (1 + (((1+1) \times 1111) - 11)) \\
&:= 2 + ((2 \times 2222) - 22) \\
&:= 33 + (((3+3) \times (3^{3+3} + 3)) - 3/3) \\
&:= 4444 - 4 \times 4 - 4 \\
&:= 5^5 + (((5-5/5)^5 + 5 \times 55) \\
&:= 66 + (66 \times 66 + ((6+6)/6)) \\
&:= (7/7 + 7) \times ((7 \times 77 + 7) + 7) \\
&:= 8 + (8 \times (8 \times (88 - 8) - 88)) \\
&:= (9 - 9/9) \times ((99 \times 99 - 9)/(9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4425 &:= 1 + ((1+1) \times (1 + (((1+1) \times 1111) - 11))) \\
&:= 2 + (((2 \times 2222) - 22) + 2/2) \\
&:= 33 + ((3+3) \times (3^{3+3} + 3)) \\
&:= 4/4 + (4444 - (4 \times 4 + 4)) \\
&:= 5 \times ((55 \times (55/5 + 5)) + 5) \\
&:= 66 + (66 \times 66 + (6 \times 6/(6+6))) \\
&:= 7/7 + ((7/7 + 7) \times ((7 \times 77 + 7) + 7)) \\
&:= 8 + ((8 \times (8 \times (88 - 8) - 88)) + 8/8) \\
&:= 9 + ((9 \times (((9+9)/9)^9) - 9) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4426 &:= (1+1) \times (((1+1) \times (1 + 1111)) - 11) \\
&:= 2 \times (2222 + 2) - 22 \\
&:= 333 + ((3/3 + 3)^{3+3} - 3) \\
&:= 4444 - ((4+4)/4 + 4 \times 4) \\
&:= 5 + (((5/5 + 5)^{5-5/5}) + 5^5) \\
&:= 6 + (((6+6)/6)^6 + 66 \times 66) \\
&:= 7 + (((7+7)/7 + 7) \times (7 \times (77 - 7) + 7/7)) \\
&:= 8 + ((8 \times (8 \times (88 - 8) - 88)) + ((8+8)/8)) \\
&:= (9 \times (((9+9)/9)^9) - 9) - ((9+9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4427 &:= 1 + ((1+1) \times (((1+1) \times (1 + 1111)) - 11)) \\
&:= 2/2 + (2 \times (2222 + 2) - 22) \\
&:= ((3+3) \times (3^{3+3} + 3 \times 3)) - 3/3 \\
&:= 4444 - (4 \times 4 + 4/4) \\
&:= 5 + (((5+5)/5 + 5) \times ((5^5 + 5)/5 + 5)) + 5) \\
&:= 6 + ((66 \times 66 - 6/6) + 66) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) - 7)) + ((77 - 7)/7)) \\
&:= 88/8 + (8 \times (8 \times (88 - 8) - 88)) \\
&:= (9 \times (((9+9)/9)^9) - 9) - (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4428 &:= (1+1) \times (1 + (((1+1) \times (1 + 1111)) - 11)) \\
&:= 2 \times (2222 - 2 \times (2 + 2)) \\
&:= (3+3) \times (3^{3+3} + 3 \times 3) \\
&:= 4444 - 4 \times 4 \\
&:= (5-5/5) \times ((5555 + 5)/5 - 5) \\
&:= 6 + (66 \times 66 + 66) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) - 7)) + (77/7)) \\
&:= (8888/((8+8)/8)) - 8 - 8 \\
&:= (9 \times (((9+9)/9)^9) - 9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4429 &:= ((1+1)^{1+11}) + (1+1+1) \times 111 \\
&:= (2 \times (2222 - 2)) - 22/2 \\
&:= 333 + (3/3 + 3)^{3+3} \\
&:= 4/4 + (4444 - 4 \times 4) \\
&:= 5 + (((5-5/5)^5 + 5 \times 55) + 5^5) \\
&:= 6 + ((66 \times 66 + 66) + 6/6) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) + (777 - 7)/7) \\
&:= 8/8 + ((8888/((8+8)/8)) - (8+8)) \\
&:= 9/9 + ((9 \times (((9+9)/9)^9) - 9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4430 &:= (11-1) \times (((1+1) \times (1+1) \times 111) - 1) \\
&:= 2 + (2 \times (2222 - 2 \times (2 + 2))) \\
&:= 3 + (((3+3) \times (3^{3+3} + 3 \times 3)) - 3/3) \\
&:= (4+4)/4 + (4444 - 4 \times 4) \\
&:= 5 + (((5+5) \times (5 \times 5 \times 5 + 5)) + 5^5) \\
&:= 6 + ((66 \times 66 + ((6+6)/6)) + 66) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) + 777/7) \\
&:= ((8-88/8) + 8) \times (888 - ((8+8)/8)) \\
&:= (9+9)/9 + ((9 \times (((9+9)/9)^9) - 9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4431 &:= ((1+1) \times (((1+1) \times 1111) - 1)) - 11 \\
&:= (2 \times 2222) - (22/2 + 2) \\
&:= 3 + ((3+3) \times (3^{3+3} + 3 \times 3)) \\
&:= 4 + (4444 - (4 \times 4 + 4/4)) \\
&:= 5 + (((5/5 + 5)^{5-5/5}) + 5^5) + 5) \\
&:= 666/6 + (6 \times (6+6) \times (66-6)) \\
&:= 7 + ((7/7 + 7) \times ((7 \times 77 + 7) + 7)) \\
&:= (8-8/8) \times ((8 \times (88 - 8) - 8) + 8/8) \\
&:= ((9-9/9) \times (9999 - 9)/(9+9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4432 &:= (1+1) \times ((1+1) \times (1111 - (1+1+1))) \\
&:= 2 \times (2222 - (2 + 2 + 2)) \\
&:= 3 + ((3/3 + 3)^{3+3} + 333) \\
&:= 4 + (4444 - 4 \times 4) \\
&:= ((5+5)/5)^5 + 55 \times (5 \times 5 + 55) \\
&:= 6 + (((6+6)/6)^6 + 66 \times 66) + 6) \\
&:= (7/7 + 7) \times ((7 \times 77 + 7/7) + 7) + 7) \\
&:= 8 + ((8 \times (8 \times (88 - 8) - 88)) + 8) \\
&:= (9 - 9/9) \times ((99 \times 99 + 9)/(9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4433 &:= ((1+1) \times ((1+1) \times 1111)) - 11 \\
&:= (2 \times 2222) - 22/2 \\
&:= 3 + (((3+3) \times (3^{3+3} + 3 \times 3)) - 3/3) + 3 \\
&:= 4444 - 44/4 \\
&:= 5 + ((5 - 5/5) \times ((5555 + 5)/5 - 5)) \\
&:= 66 + (66 \times 66 + (66/6)) \\
&:= 77 + ((77 - 77/7)^{(7+7)/7}) \\
&:= (8 \times (8 \times (8 \times 8 + 8) - 8)) - 888/8 \\
&:= 9 + ((9 - 9/9) \times ((99 \times 99 - 9)/(9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4434 &:= 1 + (((1+1) \times ((1+1) \times 1111)) - 11) \\
&:= (2 \times (2222 - (2 + 2))) - 2 \\
&:= 3 + (((3+3) \times (3^{3+3} + 3 \times 3)) + 3) \\
&:= (4 - 44)/4 + 4444 \\
&:= ((5 - 5/5) \times 5555/5) - 5 - 5 \\
&:= 6 + ((66 \times 66 + 66) + 6) \\
&:= (7 - 7/7) \times ((77/7 - 7 \times 7) + 777) \\
&:= (8 - 88)/8 + (8888/((8+8)/8)) \\
&:= (9 - ((9+9+9)/9)) \times ((9 \times 9 \times 9 + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4435 &:= ((1+1) \times (1 + ((1+1) \times 1111))) - 11 \\
&:= 2 + ((2 \times 2222) - 22/2) \\
&:= 3 + (((3/3 + 3)^{3+3} + 333) + 3) \\
&:= 4444 - (4/4 + 4 + 4) \\
&:= (555 \times ((5 - (5 + 5)/5) + 5)) - 5 \\
&:= 6 + (((66 \times 66 + 66) + 6/6) + 6) \\
&:= 77/7 + ((7/7 + 7) \times ((7 \times 77 + 7) + 7)) \\
&:= ((8 - 88/8) + 8) \times (888 - 8/8) \\
&:= (9 \times (((9+9)/9)^9) - (9+9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4436 &:= (1+1) \times ((1+1) \times (1111 - (1+1))) \\
&:= 2 \times (2222 - (2 + 2)) \\
&:= (3/3 + 3) \times (((3333 + 3)/3) - 3) \\
&:= 4444 - 4 - 4 \\
&:= (5 - 5/5) \times ((5555 - (5 + 5))/5) \\
&:= 6 + (((66 \times 66 + ((6+6)/6)) + 66) + 6) \\
&:= (77/7 - 7) \times ((7777 - 7 - 7)/7) \\
&:= (8888/((8+8)/8)) - 8 \\
&:= (9 \times (((9+9)/9)^9) - (9+9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4437 &:= 1 + ((1+1) \times ((1+1) \times (1111 - (1+1)))) \\
&:= 2/2 + (2 \times (2222 - (2 + 2))) \\
&:= 3 \times (((3+3) \times (3 \times 3 \times 3^3 + 3)) + 3) \\
&:= 4 + (4444 - 44/4) \\
&:= 55 + (((5+5)/5 + 5) \times (5^5 + 5)/5) \\
&:= 6 + ((6 \times (6+6) \times (66 - 6)) + 666/6) \\
&:= ((77/7 - 7) \times 7777/7) - 7 \\
&:= 8/8 + ((8888/((8+8)/8)) - 8) \\
&:= (9 \times (((9+9)/9)^9) - (9+9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4438 &:= (1+1) \times (((1+1) \times (1111 - 1)) - 1) \\
&:= (2 \times (2222 - 2)) - 2 \\
&:= ((3/3 + 3)^3) + ((3+3) \times 3^{3+3}) \\
&:= 4444 - ((4+4)/4 + 4) \\
&:= ((5+5)/5 + 5) \times (((5^5 - 5)/5 + 5) + 5) \\
&:= ((6+6)/6)^6 + (6 \times ((6 \times 6/(6+6))^6)) \\
&:= 77 + ((77 \times (7 \times 7 + 7)) + 7 \times 7) \\
&:= (8+8)/8 + ((8888/((8+8)/8)) - 8) \\
&:= 9/9 + ((9 \times (((9+9)/9)^9) - (9+9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4439 &:= ((1+1) \times ((1+1) \times (1111 - 1))) - 1 \\
&:= (2 \times (2222 - 2)) - 2/2 \\
&:= 33/3 + ((3+3) \times (3^{3+3} + 3 \times 3)) \\
&:= 4444 - 4/4 - 4 \\
&:= ((5 - 5/5) \times 5555/5) - 5 \\
&:= 6 + ((66 \times 66 + (66/6)) + 66) \\
&:= 7 \times 7 \times 7 + ((7/7 + 7)^{77/7-7}) \\
&:= (8 \times (8888 - 8)/(8+8)) - 8/8 \\
&:= (9+9)/9 + ((9 \times (((9+9)/9)^9) - (9+9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4440 &:= (1+1) \times ((1+1) \times (1111 - 1)) \\
&:= 2 \times (2222 - 2) \\
&:= (3+3) \times (3^{3+3} + 33/3) \\
&:= 4444 - 4 \\
&:= 555 \times ((5 - (5 + 5)/5) + 5) \\
&:= 66 + (6 \times ((6 \times 6/(6+6))^6)) \\
&:= ((7+7)/7)^7 + (77 \times (7 \times 7 + 7)) \\
&:= 8 \times (8888 - 8)/(8+8) \\
&:= (9 - 9/9) \times (9999 - 9)/(9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4441 &:= 1 + ((1+1) \times ((1+1) \times (1111 - 1))) \\
&:= 2/2 + (2 \times (2222 - 2)) \\
&:= ((3/3 + 3) \times 3333/3) - 3 \\
&:= 4/4 + (4444 - 4) \\
&:= 5/5 + (555 \times ((5 - (5 + 5)/5) + 5)) \\
&:= 66 + ((6 \times ((6 \times 6/(6+6))^6)) + 6/6) \\
&:= (7 \times (7 \times (77 + 7 + 7))) - (77/7 + 7) \\
&:= 8/8 + (8 \times (8888 - 8)/(8+8)) \\
&:= ((9/9 + 9) \times ((9 \times 9 \times 99 - 9)/(9+9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4442 &:= (1+1) \times (((1+1) \times 1111) - 1) \\
&:= (2 \times 2222) - 2 \\
&:= 3 + (((3+3) \times (3^{3+3} + 3 \times 3)) + 33/3) \\
&:= 4444 - (4 + 4)/4 \\
&:= 5 + (((5+5)/5 + 5) \times (5^5 + 5)/5) \\
&:= 66 + ((6 \times ((6 \times 6/(6+6))^6)) + ((6+6)/6)) \\
&:= ((7 - 77)/7) + ((7 \times (7 \times (77 + 7 + 7))) - 7) \\
&:= (8888/((8+8)/8)) - (8+8)/8 \\
&:= ((9 - 9 \times 9)/(9+9)) + (9 \times (((9+9)/9)^9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4443 &:= ((1+1) \times ((1+1) \times 1111)) - 1 \\
&:= (2 \times 2222) - 2/2 \\
&:= 3 + ((3+3) \times (3^{3+3} + 33/3)) \\
&:= 4444 - 4/4 \\
&:= 555 + ((5/5 + 5)^5/(5+5)/5) \\
&:= (6^{6-6/6}) - 6666 \times 6/(6+6) \\
&:= (7 \times (7 \times (77 + 7 + 7))) - (((7+7)/7 + 7) + 7) \\
&:= (8888/((8+8)/8)) - 8/8 \\
&:= (9 \times (((9+9)/9)^9) - (9+9)) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4444 &:= (1+1) \times ((1+1) \times 1111) \\
&:= 2 \times 2222 \\
&:= (3/3 + 3) \times 3333/3 \\
&:= 4444 \\
&:= (5 - 5/5) \times 5555/5 \\
&:= (6 - ((6+6)/6)) \times (6666/6) \\
&:= (77/7 - 7) \times 7777/7 \\
&:= 8888/((8+8)/8) \\
&:= 99/9 \times (((9+9)/9)^9) - (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4445 &:= 1 + ((1+1) \times ((1+1) \times 1111)) \\
&:= 2/2 + (2 \times 2222) \\
&:= 3/3 + ((3/3 + 3) \times 3333/3) \\
&:= 4/4 + 4444 \\
&:= 5^5 + (55 \times (5 \times 5 - 5/5)) \\
&:= 66666/6 - 6666 \\
&:= (7 \times (7 \times (77 + 7 + 7))) - (7 + 7) \\
&:= 8/8 + (8888/((8+8)/8)) \\
&:= (9 \times (((9+9)/9)^9) - (9+9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4446 &:= (1+1) \times (1 + ((1+1) \times 1111)) \\
&:= 2 + (2 \times 2222) \\
&:= (3+3) \times ((3^{3+3} + 3 \times 3) + 3) \\
&:= (4+4)/4 + 4444 \\
&:= 5 \times 5 + (((5/5 + 5)^{5-5/5}) + 5^5) \\
&:= 6 \times (((6 \times 6/(6+6))^6) + 6) + 6 \\
&:= (7 - 7/7 + 7) \times (7 \times 7 \times 7 - 7/7) \\
&:= (8+8)/8 + (8888/((8+8)/8)) \\
&:= 9 \times (((9+9)/9)^9) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4447 &:= 1 + ((1+1) \times (1 + ((1+1) \times 1111))) \\
&:= 2 + ((2 \times 2222) + 2/2) \\
&:= 3 + ((3/3 + 3) \times 3333/3) \\
&:= 4 + (4444 - 4/4) \\
&:= (((5+5)/5 + 5) \times ((55 + 5^5)/5)) - 5 \\
&:= 6/6 + (6 \times (((6 \times 6/(6+6))^6) + 6) + 6) \\
&:= 7 + ((77 \times (7 \times 7 + 7)) + ((7+7)/7)^7) \\
&:= (8 \times (8888 + 8)/(8+8)) - 8/8 \\
&:= 9/9 + (9 \times (((9+9)/9)^9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4448 &:= (1+1) \times ((1+1) \times (1+1111)) \\
&:= 2 \times (2222+2) \\
&:= (3/3+3) \times ((3333+3)/3) \\
&:= 4+4444 \\
&:= (5-5/5) \times (5555+5)/5 \\
&:= (6-((6+6)/6)) \times (6666+6)/6 \\
&:= (7 \times (7 \times (77+7+7))) - 77/7 \\
&:= 8 \times ((8888+8)/(8+8)) \\
&:= (9+9)/9 + (9 \times (((9+9)/9)^9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4453 &:= 1 + ((1+1) \times ((1+1) \times (1+(1+1111)))) \\
&:= 2/2 + (2 \times (2222+2+2)) \\
&:= 3 \times 3 + ((3/3+3) \times 3333/3) \\
&:= 4 + ((4444+4/4)+4) \\
&:= 5 + ((5-5/5) \times (5555+5)/5) \\
&:= ((66+6/6)^{(6+6)/6}) - 6 \times 6 \\
&:= 7/7 + ((7 \times (7 \times (77+7+7))) - 7) \\
&:= 8 + ((8888/((8+8)/8)) + 8/8) \\
&:= (9 \times ((9+9) \times (9+9+9) + 9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4458 &:= 1 + (11 + ((1+1) \times (1 + ((1+1) \times 1111)))) \\
&:= 2 + (2 \times ((2222+2+2) + 2)) \\
&:= 3 + (3^3 \times ((3+3) \times 3^3 + 3)) \\
&:= 4 + (4444 + (44-4)/4) \\
&:= 5 + (((5-5/5) \times (5555+5)/5) + 5) \\
&:= 6 \times 6 + (66 \times 66 + 66) \\
&:= (7 \times (7 \times (77+7+7))) - 7/7 \\
&:= (8+8)/8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) - 88) \\
&:= (99+9)/9 + (9 \times (((9+9)/9)^9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4449 &:= 1 + ((1+1) \times ((1+1) \times (1+1111))) \\
&:= 2/2 + 2 \times (2222+2) \\
&:= 3 + ((3+3) \times ((3^{3+3} + 3 \times 3) + 3)) \\
&:= 4 + (4444 + 4/4) \\
&:= 5 + ((5-5/5) \times 5555/5) \\
&:= 666/6 + (6 \times (((6 \times 6/(6+6))^6) - 6)) \\
&:= ((7-77)/7) + (7 \times (7 \times (77+7+7))) \\
&:= 8/8 + (8 \times ((8888+8)/(8+8))) \\
&:= 9 + ((9-9/9) \times (9999-9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4454 &:= 11 + (((1+1) \times ((1+1) \times 1111)) - 1) \\
&:= 2 + (2 \times (2222+2+2)) \\
&:= (3^3 \times ((3+3) \times 3^3 + 3)) - 3/3 \\
&:= 4444 + (44-4)/4 \\
&:= 5 + (((5-5/5) \times 5555/5) + 5) \\
&:= 6 + ((6-((6+6)/6)) \times (6666+6)/6) \\
&:= (7+7)/7 + ((7 \times (7 \times (77+7+7))) - 7) \\
&:= 8 + ((8888/((8+8)/8)) + ((8+8)/8)) \\
&:= (9 \times ((9+9) \times (9+9+9) + 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4459 &:= 11 + ((1+1) \times ((1+1) \times (1+1111))) \\
&:= 22/2 + 2 \times (2222+2) \\
&:= 3 + ((3^3 \times ((3+3) \times 3^3 + 3)) + 3/3) \\
&:= 4 + (4444 + 44/4) \\
&:= ((5+5)/5 + 5) \times ((55+5^5)/5) \\
&:= 6 + (((66+6/6)^{(6+6)/6}) - 6 \times 6) \\
&:= 7 \times (7 \times (77+7+7)) \\
&:= 8 + (((8888/((8+8)/8)) - 8/8) + 8) \\
&:= 9 + ((9/9+9) \times ((9 \times 9 \times 99 - 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4450 &:= (1+1) \times (1 + ((1+1) \times (1+1111))) \\
&:= 2 + 2 \times (2222+2) \\
&:= 3 + (((3/3+3) \times 3333/3) + 3) \\
&:= 4 + (4444 + (4+4)/4) \\
&:= 5^5 + (5 \times (5 \times 55 - (5+5))) \\
&:= 6 + ((6-((6+6)/6)) \times (6666/6)) \\
&:= (7/7 + 7 \times 7) \times ((77+7)/7 + 77) \\
&:= 8 + ((8888/((8+8)/8)) - ((8+8)/8)) \\
&:= (9/9+9) \times ((9 \times 9 \times 99 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4455 &:= 11 + ((1+1) \times ((1+1) \times 1111)) \\
&:= 22/2 + (2 \times 2222) \\
&:= 3^3 \times ((3+3) \times 3^3 + 3) \\
&:= 44/4 + 4444 \\
&:= 55 + 55 \times (5 \times 5 + 55) \\
&:= 666/6 + (66 \times 66 - 6 - 6) \\
&:= 7 + ((7 \times (7 \times (77+7+7))) - (77/7)) \\
&:= 88/8 + (8888/((8+8)/8)) \\
&:= 9 \times ((9+9) \times (9+9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4460 &:= (1+1) \times ((11-1) \times (1 + (1+1) \times 111)) \\
&:= 2 \times (2222 + 2 \times (2+2)) \\
&:= (3/3+3) \times ((3333+3)/3+3) \\
&:= 4 \times 4 + 4444 \\
&:= 5 + (55 \times (5 \times 5 + 55) + 55) \\
&:= 66 \times 66 + (((666-6)/6) - 6) \\
&:= 7/7 + (7 \times (7 \times (77+7+7))) \\
&:= 8 + ((8888/((8+8)/8)) + 8) \\
&:= (9/9+9) \times ((9 \times 9 \times 99 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4451 &:= 1 + ((1+1) \times (1 + ((1+1) \times (1+1111)))) \\
&:= 2 + (2 \times (2222+2) + 2/2) \\
&:= 3 + ((3/3+3) \times ((3333+3)/3)) \\
&:= 4 + ((4444 - 4/4) + 4) \\
&:= 5^5 + ((5 \times (5 \times 55 - (5+5))) + 5/5) \\
&:= 6 + (66666/6 - 6666) \\
&:= (7 \times (7 \times (77+7+7))) - (7/7+7) \\
&:= 8 + ((8888/((8+8)/8)) - 8/8) \\
&:= (((9 \times (999-9)) - 9) + 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4456 &:= 1 + (11 + ((1+1) \times ((1+1) \times 1111))) \\
&:= 2 \times ((2222+2+2) + 2) \\
&:= 3/3 + (3^3 \times ((3+3) \times 3^3 + 3)) \\
&:= 4 + ((4444+4) + 4) \\
&:= 5^5 + ((55/5)^{5-(5+5)/5}) \\
&:= 6 \times (66-6) + (((6+6)/6)^{6+6}) \\
&:= (7/7+7) \times ((7 \times 77 + (77/7)) + 7) \\
&:= (8 \times (8 \times (8 \times 8 + 8) - 8)) - 88 \\
&:= 9/9 + (9 \times ((9+9) \times (9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4461 &:= 1 + ((1+1) \times ((11-1) \times (1 + (1+1) \times 111))) \\
&:= 2 + (2 \times (2222+2) + 22/2) \\
&:= 3 + ((3^3 \times ((3+3) \times 3^3 + 3)) + 3) \\
&:= 4 \times 4 + (4444 + 4/4) \\
&:= 5 + (((55/5)^{5-(5+5)/5}) + 5^5) \\
&:= 666/6 + (66 \times 66 - 6) \\
&:= (7+7)/7 + (7 \times (7 \times (77+7+7))) \\
&:= (8 \times 8 - 8) \times (88 - 8) - (88/8 + 8) \\
&:= 9 + ((9 \times ((9+9) \times (9+9+9) + 9)) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4452 &:= (1+1) \times ((1+1) \times (1 + (1+1111))) \\
&:= 2 \times (2222+2+2) \\
&:= (3^3 \times ((3+3) \times 3^3 + 3)) - 3 \\
&:= 4 + (4444 + 4) \\
&:= ((5+5)/5 + 5) \times ((55+5^5)/5) \\
&:= 6 + (6 \times (((6 \times 6/(6+6))^6) + 6) + 6) \\
&:= (7 \times (7 \times (77+7+7))) - 7 \\
&:= 8 + (8888/((8+8)/8)) \\
&:= (9 \times ((9+9) \times (9+9+9) + 9)) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4457 &:= 11 + ((1+1) \times (1 + ((1+1) \times 1111))) \\
&:= 2 + ((2 \times 2222) + 22/2) \\
&:= 3 + ((3^3 \times ((3+3) \times 3^3 + 3)) - 3/3) \\
&:= 4 + (((4444+4/4) + 4) + 4) \\
&:= 5 + (((5+5)/5 + 5) \times ((55+5^5)/5)) \\
&:= 6 \times 6 + ((66 \times 66 - 6/6) + 66) \\
&:= (7 \times (7 \times (77+7+7))) - (7+7)/7 \\
&:= 8/8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) - 88) \\
&:= (9+9)/9 + (9 \times ((9+9) \times (9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4462 &:= (1+1) \times (11 + ((1+1) \times (1111-1))) \\
&:= 22 + (2 \times (2222-2)) \\
&:= 33 + ((3/3+3)^{3+3} + 333) \\
&:= 4 \times 4 + (4444 + (4+4)/4) \\
&:= 5 + (((5+5)/5 + 5) \times ((55+5^5)/5)) + 5 \\
&:= 6 + (((6+6)/6)^{6+6}) + 6 \times (66-6) \\
&:= (7+7+7)/7 + (7 \times (7 \times (77+7+7))) \\
&:= (8-88)/8 + ((8 \times 8 - 8) \times (88-8) - 8) \\
&:= 9 + ((9 \times ((9+9) \times (9+9+9) + 9)) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4463 &:= 1 + ((1 + 1) \times (11 + ((1 + 1) \times (1111 - 1)))) \\
&:= 22 + ((2 \times (2222 - 2)) + 2/2) \\
&:= 3 + ((3/3 + 3) \times ((3333 + 3)/3 + 3)) \\
&:= 4 + ((4444 + 44/4) + 4) \\
&:= 5^5 + (5 \times 5 \times 55 - ((5 + 5)/5)^5 + 5) \\
&:= 6 \times (6 + 6 + 6) + (66 \times 66 - 6/6) \\
&:= 77/7 + ((7 \times (7 \times (77 + 7 + 7))) - 7) \\
&:= (8 \times 8 - 8) \times (88 - 8) - (8/8 + 8 + 8) \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9 + 9) + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4464 &:= (1 + 1) \times (11 + (((1 + 1) \times 1111) - 1)) \\
&:= 22 + ((2 \times 2222) - 2) \\
&:= 3 \times ((3 \times (3 \times ((3 + 3) \times 3^3 + 3))) + 3) \\
&:= 4 + (4444 + 4 \times 4) \\
&:= (5 - 5/5) \times (5555/5 + 5) \\
&:= 6 \times (((666 + 66) + 6) + 6) \\
&:= 7 + ((7 \times (7 \times (77 + 7 + 7))) - ((7 + 7)/7)) \\
&:= (8/8 + 8) \times (8 \times 8 \times 8 - 8 - 8) \\
&:= 9 + (9 \times (9 + 9) \times (9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4465 &:= ((1 + 1) \times (11 + ((1 + 1) \times 1111))) - 1 \\
&:= 22 + ((2 \times 2222) - 2/2) \\
&:= 3 + (((3/3 + 3)^{3+3} + 333) + 33) \\
&:= 4 + ((4444 + 4 \times 4) + 4/4) \\
&:= 5^5 + (5 \times (5 \times 55 - 5) - (5 + 5)) \\
&:= 6/6 + (6 \times (6 + 6 + 6) + 66 \times 66) \\
&:= 7 + ((7 \times (7 \times (77 + 7 + 7))) - 7/7) \\
&:= 8/8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9 + 9) + 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4466 &:= (1 + 1) \times (11 + ((1 + 1) \times 1111)) \\
&:= 22 + (2 \times 2222) \\
&:= 33/3 + (3^3 \times ((3 + 3) \times 3^3 + 3)) \\
&:= 4444 + (44/((4 + 4)/4)) \\
&:= 5 + (((55/5)^{5-(5+5)/5} + 5^5) + 5) \\
&:= 66 \times 66 + (666 - 6)/6 \\
&:= 7 + (7 \times (7 \times (77 + 7 + 7))) \\
&:= (8 - 8/8) \times (8 \times (88 - 8) - ((8 + 8)/8)) \\
&:= 99/9 + (9 \times ((9 + 9) \times (9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4467 &:= 1 + ((1 + 1) \times (11 + ((1 + 1) \times 1111))) \\
&:= 22 + ((2 \times 2222) + 2/2) \\
&:= 3 + ((3^3 \times ((3 + 3) \times 3^3 + 3)) + 3 \times 3) \\
&:= 4 + (((4444 + 44/4) + 4) + 4) \\
&:= 5^5 + (55/5 \times ((555 + 55)/5)) \\
&:= 666/6 + 66 \times 66 \\
&:= 7 + ((7 \times (7 \times (77 + 7 + 7))) + 7/7) \\
&:= 88/8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) - 88) \\
&:= (99 + 9)/9 + (9 \times ((9 + 9) \times (9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4468 &:= (1 + 1) \times (1 + (11 + ((1 + 1) \times 1111))) \\
&:= 2 + ((2 \times 2222) + 22) \\
&:= (3/3 + 3) \times ((3333/3 + 3) + 3) \\
&:= 4 + (4444 + 4 \times 4 + 4) \\
&:= 5^5 + (5 \times 5 \times 55 - ((5 + 5)/5)^5) \\
&:= 66 \times 66 + (666 + 6)/6 \\
&:= 7 + ((7 \times (7 \times (77 + 7 + 7))) + ((7 + 7)/7)) \\
&:= 8 + (((8888/((8 + 8)/8)) + 8) + 8) \\
&:= 9 + (((9/9 + 9) \times ((9 \times 9 \times 99 - 9)/(9 + 9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4469 &:= 1 + ((1 + 1) \times (1 + (11 + ((1 + 1) \times 1111)))) \\
&:= 2 + (((2 \times 2222) + 22) + 2/2) \\
&:= (3 \times 3 + 3)^3 + (((33/3 + 3)^3) - 3) \\
&:= 4 + (((4444 + 4 \times 4) + 4/4) + 4) \\
&:= 5 + ((5 - 5/5) \times (5555/5 + 5)) \\
&:= 66 \times 66 + (((666 + 6) + 6)/6) \\
&:= ((77 - 7)/7) + (7 \times (7 \times (77 + 7 + 7))) \\
&:= (8 \times 8 - 8) \times (88 - 8) - 88/8 \\
&:= 9 + ((9/9 + 9) \times ((9 \times 9 \times 99 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4470 &:= (1 + 1) \times (11 + ((1 + 1) \times (1 + 1111))) \\
&:= 22 + 2 \times (2222 + 2) \\
&:= 3 \times 33 + (((3 + 3) \times 3^{3+3}) - 3) \\
&:= 4 + ((44/((4 + 4)/4)) + 4444) \\
&:= 5^5 + (5 \times (5 \times 55 - 5) - 5) \\
&:= 6 + (6 \times (6 + 6 + 6) + 66 \times 66) \\
&:= 77/7 + (7 \times (7 \times (77 + 7 + 7))) \\
&:= (8 - 88)/8 + (8 \times 8 - 8) \times (88 - 8) \\
&:= 99 + (((9 + 9 + 9)/9) \times (9 \times 9 \times (9 + 9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4471 &:= 1 + ((1 + 1) \times (11 + ((1 + 1) \times (1 + 1111)))) \\
&:= 22 + (2 \times (2222 + 2) + 2/2) \\
&:= 3^3 + ((3/3 + 3) \times 3333/3) \\
&:= 4 \times 4 + (4444 + 44/4) \\
&:= 5^5 + ((5 \times (5 \times 55 - 5) - 5) + 5/5) \\
&:= ((66 + 6/6)^{(6+6)/6}) - 6 - 6 - 6 \\
&:= (77 + 7)/7 + (7 \times (7 \times (77 + 7 + 7))) \\
&:= (8 \times 8 - 8) \times (88 - 8) - (8/8 + 8) \\
&:= 99 + (9 \times (9 + 9) \times (9 + 9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4472 &:= (1 + 1) \times (1 + (11 + ((1 + 1) \times (1 + 1111)))) \\
&:= 2 + (2 \times (2222 + 2) + 22) \\
&:= (3 \times 3 + 3)^3 + ((33/3 + 3)^3) \\
&:= 44 + (4444 - 4 \times 4) \\
&:= 55 + (((5 + 5)/5 + 5) \times ((5^5 + 5)/5 + 5)) \\
&:= 6 + (((666 - 6)/6) + 66 \times 66) \\
&:= (7 - 7/7 + 7) \times (7 \times 7 \times 7 + 7/7) \\
&:= (8 \times 8 - 8) \times (88 - 8) - 8 \\
&:= 99 + (9 \times (9 + 9) \times (9 + 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4473 &:= ((11 \times (11 \times 111 - 1)) - 1)/(1 + 1 + 1) \\
&:= 2 + ((2 \times (2222 + 2) + 22) + 2/2) \\
&:= 3 \times 33 + ((3 + 3) \times 3^{3+3}) \\
&:= 44 + ((4444 - 4 \times 4) + 4/4) \\
&:= 5^5 + (5 \times (5 \times 55 - 5) - ((5 + 5)/5)) \\
&:= 6 + (666/6 + 66 \times 66) \\
&:= 7 + ((7 \times (7 \times (77 + 7 + 7))) + 7) \\
&:= 8/8 + ((8 \times 8 - 8) \times (88 - 8) - 8) \\
&:= 99 + 9 \times (9 + 9) \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4474 &:= (1 + 1) \times (11 + ((1 + 1) \times (1 + (1 + 1111)))) \\
&:= 22 + (2 \times (2222 + 2 + 2)) \\
&:= 3/3 + (((3 + 3) \times 3^{3+3}) + 3 \times 33) \\
&:= 4 \times (4 + 4) + (4444 - (4 + 4)/4) \\
&:= 5^5 + (5 \times (5 \times 55 - 5) - 5/5) \\
&:= 6 + ((666 + 6)/6 + 66 \times 66) \\
&:= 7 + (((7 \times (7 \times (77 + 7 + 7))) + 7/7) + 7) \\
&:= (8 + 8)/8 + ((8 \times 8 - 8) \times (88 - 8) - 8) \\
&:= 9/9 + (9 \times (9 + 9) \times (9 + 9 + 9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4475 &:= (11 \times (11 \times (111/(1 + 1 + 1)))) - 1 - 1 \\
&:= (2 \times (2222 + 2^{2+2})) - 2/2 \\
&:= 3 + (((33/3 + 3)^3) + (3 \times 3 + 3)^3) \\
&:= 4 \times (4 + 4) + (4444 - 4/4) \\
&:= 5^5 + 5 \times (5 \times 55 - 5) \\
&:= 6 + (((666 + 6) + 6)/6) + 66 \times 66 \\
&:= 7 + (((7 \times (7 \times (77 + 7 + 7))) + ((7 + 7)/7)) + 7) \\
&:= 88/8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) \\
&:= 9 + ((9 \times ((9 + 9) \times (9 + 9 + 9) + 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4476 &:= (11 \times (11 \times (111/(1 + 1 + 1)))) - 1 \\
&:= 2 \times (2222 + 2^{2+2}) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) + 3 \times 33) \\
&:= 4 \times (4 + 4) + 4444 \\
&:= 5^5 + (5 \times (5 \times 55 - 5) + 5/5) \\
&:= 66 + (6 \times (((6 \times 6/(6 + 6))^6) + 6)) \\
&:= 7 + ((7 \times (7 \times (77 + 7 + 7))) + ((77 - 7)/7)) \\
&:= (8888 + 8 \times 8)/(8 + 8)/8 \\
&:= 999/9 + (9 \times (9 + 9) \times (9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4477 &:= 11 \times (11 \times (111/(1 + 1 + 1))) \\
&:= 22 + ((2 \times 2222) + 22/2) \\
&:= 33 + ((3/3 + 3) \times 3333/3) \\
&:= 44 + (4444 - 44/4) \\
&:= 5^5 + (5 \times (5 \times 55 - 5) + ((5 + 5)/5)) \\
&:= 66/6 \times (6 \times 66 + (66/6)) \\
&:= 7 + ((7 \times (7 \times (77 + 7 + 7))) + (77/7)) \\
&:= 8 + ((8 \times 8 - 8) \times (88 - 8) - (88/8)) \\
&:= ((9 \times 999 - 9/9)/(9 + 9)/9) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4478 &:= 1 + (11 \times (11 \times (111/(1+1+1)))) \\
&:= ((22-2) \times (222+2)) - 2 \\
&:= 3 + (((33/3+3)^3) + (3 \times 3+3)^3) + 3 \\
&:= 44 + ((4-44)/4 + 4444) \\
&:= 5 + ((5 \times (5 \times 55-5) - ((5+5)/5)) + 5^5) \\
&:= 66 \times 66 + ((666+66)/6) \\
&:= 7 + ((7 \times (7 \times (77+7+7))) + (77+7)/7) \\
&:= (8 \times 8-8) \times (88-8) - (8+8)/8 \\
&:= ((9 \times 999+9/9)/((9+9)/9)) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4479 &:= 1 + (1 + (11 \times (11 \times (111/(1+1+1)))) \\
&:= ((22-2) \times (222+2)) - 2/2 \\
&:= 3 \times ((3+3) \times 3^3 + (33/3)^3) \\
&:= 4 + ((4444-4/4) + 4 \times (4+4)) \\
&:= 5 + ((5 \times (5 \times 55-5) - 5/5) + 5^5) \\
&:= 6 + ((666/6+66 \times 66) + 6) \\
&:= 7 + ((7-7/7+7) \times (7 \times 7 \times 7+7/7)) \\
&:= (8 \times 8-8) \times (88-8) - 8/8 \\
&:= 9 \times ((9+9)/9)^9 - ((999/9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4480 &:= (1+1) \times ((1+1) \times ((11-1) \times (1+111))) \\
&:= (22-2) \times (222+2) \\
&:= (3/3+3) \times (3333/3+3 \times 3) \\
&:= 4 + (4444+4 \times (4+4)) \\
&:= 5 + (5 \times (5 \times 55-5) + 5^5) \\
&:= ((6+6)/6)^6 \times (((6+6)/6)^6 + 6) \\
&:= ((7+7)/7)^7 \times (7 \times 7 - (7+7)) \\
&:= (8 \times 8-8) \times (88-8) \\
&:= (9 \times 9-9/9) \times ((999+9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4481 &:= 1 + ((1+1) \times ((1+1) \times ((11-1) \times (1+111)))) \\
&:= 2/2 + ((22-2) \times (222+2)) \\
&:= (3 \times ((3+3) \times ((3+3)^3 + 33)) - 3/3) \\
&:= 4^4 + ((4^4+4)/4)^{(4+4)/4} \\
&:= 5 + ((5 \times (5 \times 55-5) + 5^5) + 5/5) \\
&:= (66 \times (((6+6)/6) + 66)) - 6/6 - 6 \\
&:= 7/7 + (((7+7)/7)^7 \times (7 \times 7 - (7+7))) \\
&:= 8/8 + (8 \times 8-8) \times (88-8) \\
&:= 9 + ((9 \times (9+9) \times (9+9+9) - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4482 &:= (1+1) \times (1 + ((1+1) \times ((11-1) \times (1+111)))) \\
&:= 2 + ((22-2) \times (222+2)) \\
&:= 3 \times ((3+3) \times ((3+3)^3 + 33)) \\
&:= 44 + (4444 - ((4+4)/4 + 4)) \\
&:= 5 + ((5 \times (5 \times 55-5) + ((5+5)/5)) + 5^5) \\
&:= (66 \times (((6+6)/6) + 66)) - 6 \\
&:= (((77/7+7 \times 7) + 7)^{(7+7)/7}) - 7 \\
&:= (8+8)/8 + (8 \times 8-8) \times (88-8) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4483 &:= ((1+1) \times ((1+1) \times (11 + (1111-1)))) - 1 \\
&:= 2 + (((22-2) \times (222+2)) + 2/2) \\
&:= 3/3 + (3 \times ((3+3) \times ((3+3)^3 + 33))) \\
&:= 44 + (4444 - (4/4 + 4)) \\
&:= 5^5 + ((5+5)/5 \times ((5^5-5)/5 + 55)) \\
&:= ((66+6/6)^{(6+6)/6}) - 6 \\
&:= ((77-7/7) \times (77/7+7 \times 7)) - 77 \\
&:= 88/8 + ((8 \times 8-8) \times (88-8) - 8) \\
&:= 9 + ((9 \times (9+9) \times (9+9+9) + 99) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4484 &:= (1+1) \times ((1+1) \times (11 + (1111-1))) \\
&:= 2 \times ((2222-2) + 22) \\
&:= ((3+3) \times 3^{3+3}) + ((333-3)/3) \\
&:= 44 + (4444-4) \\
&:= 5^5 + (5 \times 5 \times 55 - (55/5 + 5)) \\
&:= 6/6 + (((66+6/6)^{(6+6)/6}) - 6) \\
&:= (7/7-77) \times ((77/7-77) + 7) \\
&:= 8 + ((8888+8 \times 8)/(8+8)/8) \\
&:= 99 + (9 \times (9+9) \times (9+9+9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4485 &:= 1 + ((1+1) \times ((1+1) \times (11 + (1111-1)))) \\
&:= 2/2 + (2 \times ((2222-2) + 22)) \\
&:= 3 + (3 \times ((3+3) \times ((3+3)^3 + 33))) \\
&:= 44 + ((4444-4) + 4/4) \\
&:= 5 + ((5 \times (5 \times 55-5) + 5^5) + 5) \\
&:= 666/6 + (6 \times ((6 \times 6/(6+6))^6) + 6) \\
&:= (7-7/7+7) \times (7 \times 7 \times 7 + ((7+7)/7)) \\
&:= (8/8+8 \times 8) \times (88 - (88/8+8)) \\
&:= 999/9 + 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4486 &:= (1+1) \times (((1+1) \times (11 + 1111)) - 1) \\
&:= 2 \times (2222 + 22) - 2 \\
&:= (((3/3+3)^3) + 3)^{3-3/3} - 3 \\
&:= 44 + (4444 - (4+4)/4) \\
&:= 5^5 + (5 \times (5 \times 55-5) + (55/5)) \\
&:= 6 \times 66 + (((6+6)/6)^{6+6}) - 6 \\
&:= 7 + (((7-7/7+7) \times (7 \times 7 \times 7+7/7)) + 7) \\
&:= 8 + ((8 \times 8-8) \times (88-8) - ((8+8)/8)) \\
&:= ((9 \times 999-9/9)/((9+9)/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4487 &:= ((1+1) \times ((1+1) \times (11 + 1111))) - 1 \\
&:= 2 \times (2222 + 22) - 2/2 \\
&:= 3 + (((3+3) \times 3^{3+3}) + ((333-3)/3)) \\
&:= 44 + (4444 - 4/4) \\
&:= ((5+5)/5 + 5) \times (((55+5^5)/5) + 5) \\
&:= (66 \times (((6+6)/6) + 66)) - 6/6 \\
&:= 7 + (((7+7)/7)^7 \times (7 \times 7 - (7+7))) \\
&:= 8 + ((8 \times 8-8) \times (88-8) - 8/8) \\
&:= ((9 \times 999+9/9)/((9+9)/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4488 &:= (1+1) \times ((1+1) \times (11 + 1111)) \\
&:= 2 \times (2222 + 22) \\
&:= 33 + (3^3 \times ((3+3) \times 3^3 + 3)) \\
&:= 44 + 4444 \\
&:= 5^5 + (5 \times 5 \times 55 - ((55+5)/5)) \\
&:= 66 \times (((6+6)/6) + 66) \\
&:= ((7+7)/7 + 7 \times 7) \times (77/7 + 77) \\
&:= 8 + (8 \times 8-8) \times (88-8) \\
&:= 9 \times ((9+9)/9)^9 - (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4489 &:= (1 + ((1+1) \times (11 \times (1+1+1))))^{1+1} \\
&:= ((2^{2+2+2} + 2/2) + 2)^2 \\
&:= (((3/3+3)^3) + 3)^{3-3/3} \\
&:= 44 + (4444 + 4/4) \\
&:= 5^5 + (5 \times 5 \times 55 - (55/5)) \\
&:= (66 + 6/6)^{(6+6)/6} \\
&:= ((77/7 + 7 \times 7) + 7)^{(7+7)/7} \\
&:= 8 + ((8 \times 8-8) \times (88-8) + 8/8) \\
&:= 9 + ((9 \times 9-9/9) \times ((999+9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4490 &:= 1 + ((1 + ((1+1) \times (11 \times (1+1+1))))^{1+1}) \\
&:= 2 + 2 \times (2222 + 22) \\
&:= 3/3 + (((3/3+3)^3) + 3)^{3-3/3} \\
&:= 44 + (4444 + (4+4)/4) \\
&:= 5^5 + (5 \times 5 \times 55 - (5+5)) \\
&:= 6/6 + ((66+6/6)^{(6+6)/6}) \\
&:= 7/7 + (((77/7+7 \times 7) + 7)^{(7+7)/7}) \\
&:= 8 + ((8 \times 8-8) \times (88-8) + ((8+8)/8)) \\
&:= (9 \times 999 - (99/9))/((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4491 &:= 1 + (1 + ((1 + ((1+1) \times (11 \times (1+1+1))))^{1+1})) \\
&:= 2 + (((2^{2+2+2} + 2/2) + 2)^2) \\
&:= 3 \times (((3+3) \times ((3+3)^3 + 33)) + 3) \\
&:= 4 + ((4444 - 4/4) + 44) \\
&:= 5^5 + ((5 \times 5 \times 55 - (5+5)) + 5/5) \\
&:= (6+6)/6 + ((66+6/6)^{(6+6)/6}) \\
&:= 7 + ((7/7-77) \times ((77/7-77) + 7)) \\
&:= 88/8 + (8 \times 8-8) \times (88-8) \\
&:= 9 \times ((9 \times 999-9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4492 &:= (1+1) \times ((1+1) \times (1 + (11 + 1111))) \\
&:= 2 \times (2222 + 22 + 2) \\
&:= 3 + (((3/3+3)^3) + 3)^{3-3/3} \\
&:= 4 + (4444 + 44) \\
&:= 5 + (((5+5)/5 + 5) \times (((55+5^5)/5) + 5)) \\
&:= 6 \times 66 + (((6+6)/6)^{6+6}) \\
&:= 7 + ((7-7/7+7) \times (7 \times 7 \times 7 + ((7+7)/7))) \\
&:= ((88+8)/8) + (8 \times 8-8) \times (88-8) \\
&:= 9/9 + (9 \times (9 \times 999-9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4493 &:= 1 + ((1+1) \times ((1+1) \times (1 + (11 + 1111)))) \\
&:= 2 + (((2^{2+2+2} + 2/2) + 2)^2 + 2) \\
&:= 3 + ((3/3 + 3)^3 + 3)^{3-3/3} + 3/3 \\
&:= 4 + (4444 + 4/4) + 44 \\
&:= 5^5 + (5 \times 5 \times 55 - ((5+5)/5 + 5)) \\
&:= 6 + ((66 \times ((6+6)/6) + 66)) - 6/6 \\
&:= 7 \times 7 + ((77/7 - 7) \times 7777/7) \\
&:= 8 + ((8/8 + 8 \times 8) \times (88 - (88/8 + 8))) \\
&:= (9+9)/9 + (9 \times (9 \times 999 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4494 &:= (1+1) \times (1 + ((1+1) \times (1 + (11 + 1111)))) \\
&:= 2 + (2 \times (2222 + 22 + 2)) \\
&:= 3 \times (((3^3 \times 333) - 3)/(3+3)) \\
&:= 4 + (4444 + (4+4)/4) + 44 \\
&:= 5^5 + (5 \times 5 \times 55 - (5/5 + 5)) \\
&:= 6 + (66 \times (((6+6)/6) + 66)) \\
&:= 7 \times (777 - (((7+7)/7)^7 + 7)) \\
&:= (8 - 8/8) \times (8 \times (88 - 8) + ((8+8)/8)) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4495 &:= ((111 \times (11 - 1 - 1))^{1+1} - 1)/(1+1) \\
&:= 2 + (((((2^{2+2+2} + 2/2) + 2)^2) + 2) + 2) \\
&:= 3 + ((3/3 + 3)^3 + 3)^{3-3/3} + 3 \\
&:= 4^4 \times (4 \times 4 + 4) - (4/4 + 4)^4 \\
&:= 5^5 + (5 \times 5 \times 55 - 5) \\
&:= 6 + ((66 + 6/6)^{(6+6)/6}) \\
&:= 7 + (((7+7)/7 + 7 \times 7) \times (77/7 + 77)) \\
&:= 8 + (((8 \times 8 - 8) \times (88 - 8) - 8/8) + 8) \\
&:= (9 \times 999 - 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4496 &:= (1+1) \times ((1+1) \times (1 + (1 + (11 + 1111)))) \\
&:= 2 \times (2222 + 22 + 2) + 2 \\
&:= (3/3 + 3) \times (((3 \times 3 + 3 + 3)^3 - 3)/3) \\
&:= 4 + (4444 + 44) + 4 \\
&:= 5^5 + ((5 \times 5 \times 55 - 5) + 5/5) \\
&:= 6 + (((66 + 6/6)^{(6+6)/6}) + 6/6) \\
&:= 7 + (((77/7 + 7 \times 7) + 7)^{(7+7)/7}) \\
&:= 8 + ((8 \times 8 - 8) \times (88 - 8) + 8) \\
&:= (9 \times 999 + 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4497 &:= 1 + ((1+1) \times ((1+1) \times (1 + (1 + (11 + 1111)))))) \\
&:= (2 \times ((2 \times (22 + 2))^2)) - 222/2 \\
&:= 3 \times (((3^3 \times 333) + 3)/(3+3)) \\
&:= 4444 + (4^4 - 44)/4 \\
&:= 5^5 + ((5 \times 5 \times 55 - 5) + ((5+5)/5)) \\
&:= 6 + (((66 + 6/6)^{(6+6)/6}) + ((6+6)/6)) \\
&:= (7 \times ((7 \times (77 + 7 + 7)) + 7)) - 77/7 \\
&:= 8 \times 8 \times (8 \times 8 + 8) - 888/8 \\
&:= 9 \times (9+9)/9^9 - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4498 &:= 11 + (((1+1) \times ((1+1) \times (11 + 1111))) - 1) \\
&:= 2 + (2^{2 \times (2+2+2)} + (22 - 2)^2) \\
&:= (3 \times (3+3))^3 - ((33/3)^3 + 3) \\
&:= 44 + (4444 + (44 - 4)/4) \\
&:= 5^5 + (5 \times 5 \times 55 - ((5+5)/5)) \\
&:= 6 + (((6+6)/6)^{6+6}) + 6 \times 66 \\
&:= ((7 - 77)/7) + (7 \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= ((8 - 888)/8) + 8 \times 8 \times (8 \times 8 + 8) \\
&:= ((9 - 999)/9) + 9 \times (9+9)/9^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4499 &:= 11 + ((1+1) \times ((1+1) \times (11 + 1111))) \\
&:= 22/2 + 2 \times (2222 + 22) \\
&:= (33/3)^3 + (33 \times (3 \times 33 - 3)) \\
&:= 44 + (4444 + 44/4) \\
&:= 5^5 + (5 \times 5 \times 55 - 5/5) \\
&:= 66/6 + (66 \times (((6+6)/6) + 66)) \\
&:= 777 + (7 \times (7 \times 77 - 7) - ((7+7)/7)) \\
&:= 8 + ((8 \times 8 - 8) \times (88 - 8) + (88/8)) \\
&:= 9 \times (9+9)/9^9 - (9/9 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4500 &:= 11 + ((1 + ((1+1) \times (11 \times (1+1+1))))^{1+1}) \\
&:= (22 - 2) \times (222 + 2/2 + 2) \\
&:= (33 + 3) \times (3 - 3/3 + 3)^3 \\
&:= (44/4 + 4) \times (44 + 4^4) \\
&:= 5^5 + 5 \times 5 \times 55 \\
&:= 6 \times (66 \times (6+6) - (6 \times 6 + 6)) \\
&:= 777 + (7 \times (7 \times 77 - 7) - 7/7) \\
&:= 8 \times 8 + ((8888/((8+8)/8)) - 8) \\
&:= 9 \times (9 \times 999 + 9)/(9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4501 &:= (1+1)^{11} + (11 \times (1 + (1+1) \times 111)) \\
&:= 2 + 2 \times (2222 + 22) + 22/2 \\
&:= (3 \times (3+3))^3 - (33/3)^3 \\
&:= 4 + ((4^4 - 44)/4 + 4444) \\
&:= 5^5 + (5 \times 5 \times 55 + 5/5) \\
&:= 6 + (((66 + 6/6)^{(6+6)/6}) + 6) \\
&:= 777 + 7 \times (7 \times 77 - 7) \\
&:= (8/8 + 8) \times (8 \times 8 \times 8 - 88/8) - 8 \\
&:= 9/9 + (9 \times (9 \times 999 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4502 &:= 1 + ((1+1)^{11} + (11 \times (1 + (1+1) \times 111))) \\
&:= 22 + ((22 - 2) \times (222 + 2)) \\
&:= 3/3 + (((3 \times (3+3))^3 - (33/3)^3) + 3) \\
&:= 4444 + ((4^4 - 4 - 4)/4 - 4) \\
&:= 5^5 + (5 \times 5 \times 55 + ((5+5)/5)) \\
&:= 6 + (((66 + 6/6)^{(6+6)/6}) + 6/6 + 6) \\
&:= 7/7 + (7 \times (7 \times 77 - 7) + 777) \\
&:= 8 + ((8 - 8/8) \times (8 \times (88 - 8) + ((8+8)/8))) \\
&:= (9+9)/9 + (9 \times (9 \times 999 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4503 &:= 11 + ((1+1) \times ((1+1) \times (1 + (11 + 1111)))) \\
&:= 22 + (((22 - 2) \times (222 + 2)) + 2/2) \\
&:= 3 + ((33 + 3) \times (3 - 3/3 + 3)^3) \\
&:= 4444 + (((4^4 - 4)/4) - 4) \\
&:= 5 + ((5 \times 5 \times 55 - ((5+5)/5)) + 5^5) \\
&:= 6 \times 6 + (666/6 + 66 \times 66) \\
&:= ((7/7 + 7 \times 7) + 7) \times ((7+7)/7 + 77) \\
&:= ((8/8 - 88) + 8) \times (8 - (8/8 + 8 \times 8)) \\
&:= 9 + (9 \times (9+9) \times (9+9+9) + 999/9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4504 &:= 111 + (((1+1) \times ((1+1+11)^{1+1+1})) - 1) \\
&:= 2 + (((22 - 2) \times (222 + 2)) + 22) \\
&:= 3 + ((3 \times (3+3))^3 - (33/3)^3) \\
&:= 4 \times 4 + (4444 + 44) \\
&:= 5 + ((5 \times 5 \times 55 - 5/5) + 5^5) \\
&:= 6 + (((((6+6)/6)^{6+6}) + 6 \times 66) + 6) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) + 7)) - (77/7)) \\
&:= 8 + (((8 \times 8 - 8) \times (88 - 8) + 8) + 8) \\
&:= 9 + (9 \times 999 - 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4505 &:= 111 + ((1+1) \times ((1+1+11)^{1+1+1})) \\
&:= 2^{2+2} + (2^{2+2+2} + 2/2 + 2)^2 \\
&:= (3 \times (33/3)^3) + ((3 - 3/3)^{3 \times 3}) \\
&:= (4^4 + 4)/4 + (4444 - 4) \\
&:= 5 + (5 \times 5 \times 55 + 5^5) \\
&:= 6 + ((66 \times (((6+6)/6) + 66)) + (66/6)) \\
&:= (7/7 + 77 + 7) \times ((77/7 - 7) + 7 \times 7) \\
&:= 8 + (8 \times 8 \times (8 \times 8 + 8) - 888/8) \\
&:= 9 + (9 \times 999 + 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4506 &:= 1 + (111 + ((1+1) \times ((1+1+11)^{1+1+1}))) \\
&:= 22 + (2 \times ((2222 - 2) + 22)) \\
&:= 3 + (((33 + 3) \times (3 - 3/3 + 3)^3) + 3) \\
&:= 4444 + (4^4 - 4 - 4)/4 \\
&:= 5 + ((5 \times 5 \times 55 + 5/5) + 5^5) \\
&:= 6 + ((6+6) \times (6+6) + 66 \times 66) \\
&:= (7 \times ((7 \times (77 + 7 + 7)) + 7)) - (7+7)/7 \\
&:= 8 + (((8 - 888)/8) + 8 \times 8 \times (8 \times 8 + 8)) \\
&:= 9 + (9 \times (9+9)/9)^9 - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4507 &:= 111 + ((1+1) \times (1 + ((1+1+11)^{1+1+1}))) \\
&:= 2^{2+2+2} + ((2 \times 2222) - 2/2) \\
&:= 3 + (((3 \times (3+3))^3 - (33/3)^3) + 3) \\
&:= 4444 + ((4^4 - 4)/4) \\
&:= 5 + ((5 \times 5 \times 55 + ((5+5)/5)) + 5^5) \\
&:= 6 + (((66 + 6/6)^{(6+6)/6}) + 6) + 6 \\
&:= (7 \times ((7 \times (77 + 7 + 7)) + 7)) - 7/7 \\
&:= 8 + (((8 \times 8 - 8) \times (88 - 8) + (88/8)) + 8) \\
&:= 9 \times (9+9)/9^9 - ((9+9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4508 &:= (1 + (11 + 11)) \times (1 + 1 + 1 + 11)^{1+1} \\
&:= 2 \times (2222 + 2 \times 2^{2+2}) \\
&:= (33/3 + 3) \times (333 - 33/3) \\
&:= 4 \times 4 \times 4 + 4444 \\
&:= 5 + (((5 \times 5 \times 55 - ((5 + 5)/5)) + 5^5) + 5) \\
&:= 6 \times 6 \times 6 + (66 \times 66 - ((6 + 6)/6)^6) \\
&:= 7 \times ((7 \times (77 + 7 + 7)) + 7) \\
&:= 8 \times 8 + (8888 / ((8 + 8)/8)) \\
&:= 9 \times ((9 + 9)/9)^9 - (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4509 &:= (11 - 1 - 1) \times ((1 + 1)^{11-1-1} - 11) \\
&:= 22 + 2 \times (2222 + 22) - 2/2 \\
&:= 3 \times (3 \times (((3 + 3) \times (3 \times 3^3 + 3)) - 3)) \\
&:= (4^4 + 4)/4 + 4444 \\
&:= 5 + (((5 \times 5 \times 55 - 5/5) + 5^5) + 5) \\
&:= 6 + ((666/6 + 66 \times 66) + 6 \times 6) \\
&:= 7/7 + (7 \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= (8/8 + 8) \times (8 \times 8 \times 8 - 88/8) \\
&:= 9 \times ((9 + 9)/9)^9 - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4510 &:= (1 + 1) \times (11 + ((1 + 1) \times (11 + 1111))) \\
&:= 22 + 2 \times (2222 + 22) \\
&:= 3 \times 3 + ((3 \times (3 + 3))^3 - (33/3)^3) \\
&:= 4444 + ((4^4 + 4 + 4)/4) \\
&:= 5 + ((5 \times 5 \times 55 + 5^5) + 5) \\
&:= (6 \times 6 - 6/6 + 6) \times ((666 - 6)/6) \\
&:= (7 + 7)/7 + (7 \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= 8/8 + (8/8 + 8) \times (8 \times 8 \times 8 - 88/8) \\
&:= 9/9 + (9 \times ((9 + 9)/9)^9 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4511 &:= 111 + (11 \times ((1 + 1) \times (11 - 1))^{1+1}) \\
&:= 22 + (2^{2+2+2} + 2/2 + 2)^2 \\
&:= 3 + ((33/3 + 3) \times (333 - 33/3)) \\
&:= 4 + (4444 + ((4^4 - 4)/4)) \\
&:= 5^5 + (5 \times 5 \times 55 + (55/5)) \\
&:= 66/6 + ((6 + 6) \times (6 + 6) + 66 \times 66) \\
&:= 7 \times 7 \times 7 + 7 + (((7 + 7 + 7)/7)^7 - 77) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - ((8/8 + 88) + 8) \\
&:= (9 + 9)/9 + (9 \times ((9 + 9)/9)^9 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4512 &:= (1 + 1)^{11} + ((1 + 1) \times (11 \times (1 + 111))) \\
&:= 2 + 2 \times (2222 + 22) + 22 \\
&:= 3 + (3 \times (3 \times (((3 + 3) \times (3 \times 3^3 + 3)) - 3))) \\
&:= 4 + (4444 + 4 \times 4 \times 4) \\
&:= 5^5 + (5 \times 5 \times 55 + ((55 + 5)/5)) \\
&:= 6 + (((6 + 6) \times (6 + 6) + 66 \times 66) + 6) \\
&:= 77/7 + (7 \times (7 \times 77 - 7) + 777) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (88 + 8) \\
&:= (9 - 9/9) \times ((9999 - 9)/(9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4513 &:= (1 + 1 + 1)^{(1+1) \times (1+1+1)} - (1 + 1)^{11} \\
&:= (2/2 + 2)^{2 \times (2+2)} - 2^{22/2} \\
&:= 3 + (((3 \times (3 + 3))^3 - (33/3)^3) + 3 \times 3) \\
&:= 4 + ((4^4 + 4)/4 + 4444) \\
&:= 5^5/5 + ((5/5 + 5)^5 / ((5 + 5)/5)) \\
&:= 6 + (((((66 + 6/6)^{(6+6)/6}) + 6) + 6) + 6) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) + 7)) - ((7 + 7)/7)) \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 + 8) - (88 + 8)) \\
&:= 9 \times 9 \times 9 \times 9 - (((9 + 9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4514 &:= (1 + 11^{1+1}) \times (111/(1 + 1 + 1)) \\
&:= 22 + 2 \times (2222 + 22 + 2) \\
&:= ((3 - 3/3)^{3 \times 3}) + 3 \times ((33/3)^3 + 3) \\
&:= 4 + (((4^4 + 4 + 4)/4) + 4444) \\
&:= 5^5 + (5 \times (5 \times 55 + 5) - (55/5)) \\
&:= (6 \times 6 + 6/6) \times ((666 + 66)/6) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) + 7)) - 7/7) \\
&:= (8 + 8)/8 + (8 \times 8 \times (8 \times 8 + 8) - (88 + 8)) \\
&:= 9 + (((9 \times 999 + 9/9)/(9 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4515 &:= 1 + ((1 + 11^{1+1}) \times (111/(1 + 1 + 1))) \\
&:= 2 + (2/2 + 2)^{2 \times (2+2)} - 2^{22/2} \\
&:= (3/3 + 3 + 3) \times (3 \times (3 + 3)^3 - 3) \\
&:= 4 + ((4444 + ((4^4 - 4)/4)) + 4) \\
&:= 5 + (((5 \times 5 \times 55 + 5^5) + 5) + 5) \\
&:= ((6 \times 6 + 6/6) + 6) \times (666/6 - 6) \\
&:= 7 + (7 \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= (8 \times (8 + 8) + 8/8) \times ((88/8 + 8 + 8) + 8) \\
&:= (9 \times (((9 + 9)/9)^9 - 9)) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4516 &:= 1 + (1 + ((1 + 11^{1+1}) \times (111/(1 + 1 + 1)))) \\
&:= 2 \times ((2 + 2 + 2)^2 + 2222) \\
&:= 3^3 + (((3/3 + 3)^3) + 3)^{3-3/3} \\
&:= 4 + ((4444 + 4 \times 4 \times 4) + 4) \\
&:= 5 + ((5 \times 5 \times 55 + (55/5)) + 5^5) \\
&:= 6 + ((6 \times 6 - 6/6 + 6) \times ((666 - 6)/6)) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) + 7)) + 7/7) \\
&:= 8 + ((8888 / ((8 + 8)/8)) + 8 \times 8) \\
&:= (9 \times (((9 + 9)/9)^9 - 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4517 &:= ((11 \times (11 \times (1 + 111))) - 1)/(1 + 1 + 1) \\
&:= 2/2 + (2 \times ((2 + 2 + 2)^2 + 2222)) \\
&:= ((3 + 3) \times ((3^{3+3} - 3) + 3^3)) - 3/3 \\
&:= 4 + (((4^4 + 4)/4 + 4444) + 4) \\
&:= 5 + ((5 \times 5 \times 55 + ((55 + 5)/5)) + 5^5) \\
&:= (6 \times (6 \times (6 + 6) \times (6 + 6))) - (666 + 6/6) \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) + 7)) + ((7 + 7)/7)) \\
&:= 8 + (8/8 + 8) \times (8 \times 8 \times 8 - 88/8) \\
&:= (9 \times (((9 + 9)/9)^9 - 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4518 &:= 1 + (((11 \times (11 \times (1 + 111))) - 1)/(1 + 1 + 1)) \\
&:= ((22 - 2) \times (222 + 2 + 2)) - 2 \\
&:= (3 + 3) \times ((3^{3+3} - 3) + 3^3) \\
&:= 4444 + (((4^4 - 4) + 44)/4) \\
&:= 5 + (((5/5 + 5)^5 / ((5 + 5)/5)) + 5^5/5) \\
&:= (6 + 6 + 6) \times (6 \times (6 \times 6 + 6) - 6/6) \\
&:= ((77 - 7)/7) + (7 \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= (8/8 + 8) \times ((8 - 88)/8 + 8 \times 8 \times 8) \\
&:= (9 \times (((9 + 9)/9)^9 - 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4519 &:= (11 \times (11 + ((1 + 1) \times (11 - 1))^{1+1})) - 1 - 1 \\
&:= ((22 - 2) \times (222 + 2 + 2)) - 2/2 \\
&:= 3/3 + ((3 + 3) \times ((3^{3+3} - 3) + 3^3)) \\
&:= 4444 + (44 + 4^4)/4 \\
&:= 5^5 + (5 \times (5 \times 55 + 5) - (5/5 + 5)) \\
&:= 6 \times 6 + (((66 + 6/6)^{(6+6)/6}) - 6) \\
&:= 77/7 + (7 \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (8/8 + 88) \\
&:= 9/9 + ((9 \times (((9 + 9)/9)^9 - 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4520 &:= (1 + 1) \times ((1 + 1) \times ((11 - 1) \times (1 + 1 + 111))) \\
&:= (22 - 2) \times (222 + 2 + 2) \\
&:= 3 + (((3 + 3) \times ((3^{3+3} - 3) + 3^3)) - 3/3) \\
&:= 44 + (4444 + 4 \times (4 + 4)) \\
&:= 5^5 + (5 \times (5 \times 55 + 5) - 5) \\
&:= 6 + ((6 \times 6 + 6/6) \times ((666 + 66)/6)) \\
&:= (77 + 7)/7 + (7 \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - 88 \\
&:= (9 + 9)/9 + (9 \times (((9 + 9)/9)^9 - 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4521 &:= 11 \times (11 + ((1 + 1) \times (11 - 1))^{1+1}) \\
&:= 2/2 + ((22 - 2) \times (222 + 2 + 2)) \\
&:= 3 + ((3 + 3) \times ((3^{3+3} - 3) + 3^3)) \\
&:= 4444 + ((4 - 4/4)^4 - 4) \\
&:= 5^5 + ((5 \times (5 \times 55 + 5) - 5) + 5/5) \\
&:= 6 + (((6 \times 6 + 6/6) + 6) \times (666/6 - 6)) \\
&:= 77/7 \times (7 \times 77 - ((7 + 7)/7)^7) \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 + 8) - 88) \\
&:= (99 + 9)/9 + (9 \times ((9 + 9)/9)^9 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4522 &:= 1 + (11 \times (11 + ((1 + 1) \times (11 - 1))^{1+1})) \\
&:= 2 + ((22 - 2) \times (222 + 2 + 2)) \\
&:= 33 + (((3/3 + 3)^3) + 3)^{3-3/3} \\
&:= (4 \times 4 + 4/4) \times ((44 - 4)/4 + 4^4) \\
&:= 5^5 + ((5 \times (5 \times 55 + 5) - 5) + ((5 + 5)/5)) \\
&:= (6 \times (66 + 6)) + (((6 + 6)/6)^{6+6}) - 6 \\
&:= 7 + ((7 \times ((7 \times (77 + 7 + 7)) + 7)) + 7) \\
&:= (8 + 8)/8 + (8 \times 8 \times (8 \times 8 + 8) - 88) \\
&:= 9 + (9 \times 9 \times 9 \times 9 - (((9 + 9)/9)^{99/9}))
\end{aligned}$$

- ▶ 4523 := $1 + (1 + (11 \times (11 + ((1 + 1) \times (11 - 1))^{1+1})))$
:= $2 + (((22 - 2) \times (222 + 2 + 2)) + 2/2)$
:= $3 + (3 + 3) \times (3^{3+3} - 3 + 3^3) - 3/3 + 3$
:= $4 + ((44 + 4^4)/4 + 4444)$
:= $5^5 + (5 \times (5 \times 55 + 5) - ((5 + 5)/5))$
:= $6 \times 6 + ((66 \times ((6 + 6)/6) + 66)) - 6/6$
:= $7 + (((7 \times ((7 \times (77 + 7 + 7)) + 7)) + 7/7) + 7)$
:= $88/8 + (8 \times 8 \times (8 \times 8 + 8) - (88 + 8))$
:= $((9 - 9 \times 9)/(9 + 9)) + (9 \times (((9 + 9)/9)^9) - 9)$
- ▶ 4524 := $(1 + 1) \times ((1 + 1) \times (1 + ((11 - 1) \times (1 + 1 + 111))))$
:= $2 \times (2222 + 2 \times (22 - 2))$
:= $3 + (((3 + 3) \times ((3^{3+3} - 3) + 3^3)) + 3)$
:= $444 + 4 \times (4 \times 4^4 - 4)$
:= $5^5 + (5 \times (5 \times 55 + 5) - 5/5)$
:= $6 \times 6 + (66 \times (((6 + 6)/6) + 66))$
:= $(7/7 + 77) \times (((7 + 7)/7 + 7 \times 7) + 7)$
:= $88 + ((8888)/(8 + 8)/8) - 8$
:= $(9 \times (((9 + 9)/9)^9) - 9) - (9 + 9 + 9)/9$
- ▶ 4525 := $11 + ((1 + 11^{1+1}) \times (111/(1 + 1 + 1)))$
:= $(2 \times 2222) + (2/2 + 2)^{2+2}$
:= $((3 + 3) \times (3^{3+3} + 3^3)) - 33/3$
:= $4444 + (4 - 4/4)^4$
:= $5^5 + 5 \times (5 \times 55 + 5)$
:= $6 \times 6 + ((66 + 6/6)^{(6+6)/6})$
:= $77 + ((7 \times (7 \times (77 + 7 + 7))) - (77/7))$
:= $(8 \times (8 \times (8 \times 8 + 8) - 8)) - (88/8 + 8)$
:= $(9 \times (((9 + 9)/9)^9) - 9) - (9 + 9)/9$
- ▶ 4526 := $(11111 - (11 + (1 + 1)^{11}))/ (1 + 1)$
:= $2222 + ((2 \times (22 + 2))^2)$
:= $((3 - 33)/3) + ((3 + 3) \times (3^{3+3} + 3^3))$
:= $4/4 + (4444 + (4 - 4/4)^4)$
:= $5^5 + (5 \times (5 \times 55 + 5) + 5/5)$
:= $6 \times 6 + (((66 + 6/6)^{(6+6)/6}) + 6/6)$
:= $7 + ((7 \times ((7 \times (77 + 7 + 7)) + 7)) + (77/7))$
:= $(8 \times 8 - ((8 + 8)/8)) \times ((8/8 + 8 \times 8) + 8)$
:= $(9 \times (((9 + 9)/9)^9) - 9) - 9/9$
- ▶ 4527 := $1 + ((11111 - (11 + (1 + 1)^{11}))/ (1 + 1))$
:= $2 + ((2 \times 2222) + (2/2 + 2)^{2+2})$
:= $3 \times (3 \times (((3 - 3/3)^{3 \times 3}) - 3 \times 3))$
:= $4^4 + ((4 \times 44 - 4/4) + (4 + 4)^4)$
:= $5^5 + (5 \times (5 \times 55 + 5) + ((5 + 5)/5))$
:= $66 + ((66 \times 66 - 6) + 666/6)$
:= $((7 - 7/7) \times 777) - (((7 + 7)/7)^7 + 7)$
:= $(8/8 + 8) \times (8 \times 8 \times 8 - (8/8 + 8))$
:= $9 \times (((9 + 9)/9)^9) - 9$
- ▶ 4528 := $(1 + 1) \times ((1 + 1) \times (11 + (11 + (1111 - 1))))$
:= $2 \times ((2222 - 2) + 2 \times 22)$
:= $3^3 + ((3 \times (3 + 3))^3 - (33/3)^3)$
:= $4 \times ((4 \times (4 \times 4 + 4^4)) + 44)$
:= $5 + ((5 \times (5 \times 55 + 5) - ((5 + 5)/5)) + 5^5)$
:= $(6 \times (66 + 6)) + (((6 + 6)/6)^{6+6})$
:= $((7 + 7)/7) \times (((7 + 7 + 7)/7)^7 + 77)$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) - 88)$
:= $9/9 + (9 \times (((9 + 9)/9)^9) - 9)$
- ▶ 4529 := $((1 + 1) \times ((1 + 1)^{11} + (1 + 1) \times 111)) - 11$
:= $2/2 + (2 \times ((2222 - 2) + 2 \times 22))$
:= $(3/3 + 3 + 3) \times (3 \times (3 + 3)^3 - 3/3)$
:= $4 + (4444 + (4 - 4/4)^4)$
:= $5 + ((5 \times (5 \times 55 + 5) - 5/5) + 5^5)$
:= $(6/6 + 6) \times ((6 \times 6 \times (6 + 6 + 6)) - 6/6)$
:= $77 + ((7 \times (7 \times (77 + 7 + 7))) - 7)$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) - 88) + 8/8)$
:= $(9 + 9)/9 + (9 \times (((9 + 9)/9)^9) - 9)$
- ▶ 4530 := $(1 + 1) \times (((1 + 1) \times (11 + (11 + 1111))) - 1)$
:= $2 \times (2222 + 2 \times 22) - 2$
:= $(3 + 3) \times ((3^{3+3} - 3/3) + 3^3)$
:= $444 + ((4 - 44)/4 + (4 + 4)^4)$
:= $5 + (5 \times (5 \times 55 + 5) + 5^5)$
:= $(6 \times (6 \times ((66 - 6) + 66))) - 6$
:= $7/7 + (((7 \times (7 \times (77 + 7 + 7))) - 7) + 77)$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) - 88) + ((8 + 8)/8))$
:= $((9 + 9 + 9)/9) + (9 \times (((9 + 9)/9)^9) - 9)$
- ▶ 4531 := $(11111 - (1 + (1 + 1)^{11}))/ (1 + 1)$
:= $2 \times (2222 + 2 \times 22) - 2/2$
:= $3 + (((3 \times (3 + 3))^3 - (33/3)^3) + 3^3)$
:= $44 + ((4444 - 4/4) + 44)$
:= $5555 - (5 - 5/5)^5$
:= $6 + (((66 + 6/6)^{(6+6)/6}) + 6 \times 6)$
:= $7 + ((7/7 + 77) \times (((7 + 7)/7 + 7 \times 7) + 7))$
:= $88/8 + (8 \times 8 \times (8 \times 8 + 8) - 88)$
:= $((9 \times 9 - 9)/(9 + 9)) + (9 \times (((9 + 9)/9)^9) - 9)$
- ▶ 4532 := $(1 + 1) \times ((1 + 1) \times (11 + (11 + 1111)))$
:= $2 \times (2222 + 2 \times 22)$
:= $((3 + 3) \times (3^{3+3} + 3^3)) - (3/3 + 3)$
:= $44 + (4444 + 44)$
:= $5^5 + (5 \times 5 \times 55 + ((5 + 5)/5)^5)$
:= $66 + (((666 - 6)/6) + 66 \times 66)$
:= $777 + (7 \times 7 \times 77 - (77/7 + 7))$
:= $88 + (8888/(8 + 8)/8)$
:= $99/9 \times (((9 + 9)/9)^9) - (9/9 + 99)$
- ▶ 4533 := $1 + ((1 + 1) \times ((1 + 1) \times (11 + (11 + 1111))))$
:= $2/2 + 2 \times (2222 + 2 \times 22)$
:= $((3 + 3) \times (3^{3+3} + 3^3)) - 3$
:= $4 + ((4444 + (4 - 4/4)^4) + 4)$
:= $5^5 + (((5 + 5)/5)^5 \times (55 - (55/5)))$
:= $66 + (666/6 + 66 \times 66)$
:= $7 + (((7 \times ((7 \times (77 + 7 + 7)) + 7)) + (77/7)) + 7)$
:= $(8 \times (8 \times (8 \times 8 + 8) - 8)) - 88/8$
:= $9 + (9 \times (((9 + 9)/9)^9) - 9) - ((9 + 9 + 9)/9)$
- ▶ 4534 := $(1 + 1) \times (1 + ((1 + 1) \times (11 + (11 + 1111))))$
:= $2 + 2 \times (2222 + 2 \times 22)$
:= $3/3 + (((3 + 3) \times (3^{3+3} + 3^3)) - 3)$
:= $444 + ((4 + 4)^4 - ((4 + 4)/4 + 4))$
:= $5 + (((5 \times (5 \times 55 + 5) - 5/5) + 5^5) + 5)$
:= $6 + (((6 + 6)/6)^{6+6}) + (6 \times (66 + 6))$
:= $((7 - 7/7) \times 777) - ((7 + 7)/7)^7$
:= $(8 - 88)/8 + (8 \times (8 \times (8 \times 8 + 8) - 8))$
:= $9 + (9 \times (((9 + 9)/9)^9) - 9) - ((9 + 9)/9)$
- ▶ 4535 := $((1 + 1) \times ((1 + 1)^{11} + ((1 + 1) \times (111 - 1)))) - 1$
:= $2 + (2 \times (2222 + 2 \times 22) + 2/2)$
:= $((3 + 3) \times (3^{3+3} + 3^3)) - 3/3$
:= $444 + ((4 + 4)^4 - (4/4 + 4))$
:= $5 + ((5 \times (5 \times 55 + 5) + 5^5) + 5)$
:= $(6 \times (6 \times ((66 - 6) + 66))) - 6/6$
:= $77 + ((7 \times (7 \times (77 + 7 + 7))) - 7/7)$
:= $(8 \times (8 \times (8 \times 8 + 8) - 8)) - (8/8 + 8)$
:= $9 + (9 \times (((9 + 9)/9)^9) - 9) - 9/9$
- ▶ 4536 := $(1 + 1) \times ((1 + 1)^{11} + ((1 + 1) \times (111 - 1)))$
:= $2 \times ((2222 + 2 \times 22) + 2)$
:= $(3 + 3) \times (3^{3+3} + 3^3)$
:= $444 + ((4 + 4)^4 - 4)$
:= $5 + (5555 - (5 - 5/5)^5)$
:= $6 \times (6 \times ((66 - 6) + 66))$
:= $77 + (7 \times (7 \times (77 + 7 + 7)))$
:= $(8/8 + 8) \times (8 \times 8 \times 8 - 8)$
:= $9 + (9 \times (((9 + 9)/9)^9) - 9)$
- ▶ 4537 := $((1 + 1)^{1+11}) + ((11 + (11 - 1))^{1+1})$
:= $((22 - 2/2)^2) + 2^{2 \times (2+2+2)}$
:= $3/3 + ((3 + 3) \times (3^{3+3} + 3^3))$
:= $4/4 + (((4 + 4)^4 - 4) + 444)$
:= $5 + ((5555 - (5 - 5/5)^5) + 5/5)$
:= $6/6 + (6 \times (6 \times ((66 - 6) + 66)))$
:= $7/7 + ((7 \times (7 \times (77 + 7 + 7))) + 77)$
:= $8/8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 8))$
:= $9 + (9 \times (((9 + 9)/9)^9) - 9) + 9/9$

- 4538 := $(1+1) \times ((1+1)^{11} + ((1+1) \times 111 - 1))$
:= $(2 \times (2^{22/2} + 222)) - 2$
:= $3 + (((3+3) \times (3^{3+3} + 3^3)) - 3/3)$
:= $444 + ((4+4)^4 - (4+4)/4)$
:= $((5+5)/5 + 5) \times ((5^5 - 5)/5 + 5 \times 5) - 5$
:= $(6+6)/6 + (6 \times (6 \times ((66-6) + 66)))$
:= $77 + ((7 \times (7 \times (77 + 7 + 7))) + ((7+7)/7))$
:= $(8+8)/8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 8))$
:= $99/9 + (9 \times (((9+9)/9)^9 - 9))$
- 4539 := $((1+1) \times ((1+1)^{11} + (1+1) \times 111)) - 1$
:= $(2 \times (2^{22/2} + 222)) - 2/2$
:= $3 + ((3+3) \times (3^{3+3} + 3^3))$
:= $444 + ((4+4)^4 - 4/4)$
:= $5^5 + ((5 \times ((5 \times 55 + 5) + 5)) - (55/5))$
:= $((6 \times 6 \times 6 \times (6 \times 6 + 6)) + 6) / ((6+6)/6)$
:= $777 + (7 \times 7 \times 77 - (77/7))$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) - 88) + (88/8))$
:= $(99+9)/9 + (9 \times (((9+9)/9)^9 - 9))$
- 4540 := $(1+1) \times ((1+1)^{11} + (1+1) \times 111)$
:= $2 \times (2^{22/2} + 222)$
:= $3 + (((3+3) \times (3^{3+3} + 3^3)) + 3/3)$
:= $444 + (4+4)^4$
:= $(5 \times ((5 - 5/5)^5 - 5)) - 555$
:= $6 + (((6+6)/6)^{6+6} + (6 \times (66+6))) + 6$
:= $777 + (((7-77)/7) + 7 \times 7 \times 77)$
:= $8 + (8888 / ((8+8)/8)) + 88$
:= $(9/9 + 9) \times (((9 \times 9 \times 99 - 9) / (9+9)) + 9)$
- 4541 := $1 + ((1+1) \times ((1+1)^{11} + (1+1) \times 111))$
:= $2/2 + (2 \times (2^{22/2} + 222))$
:= $((3/3 + 3)^3) \times (((3+3)^3 - 3)/3) - 3$
:= $4/4 + (444 + (4+4)^4)$
:= $5 + ((5555 - (5 - 5/5)^5) + 5)$
:= $6 + ((6 \times (6 \times ((66-6) + 66))) - 6/6)$
:= $7777/7 + 7 \times 7 \times (77 - 7)$
:= $8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) - (88/8))$
:= $(99999/9) - (9 \times 9 \times 9 \times 9 + 9)$
- 4542 := $(1+1) \times (1 + ((1+1)^{11} + (1+1) \times 111))$
:= $2 + (2 \times (2^{22/2} + 222))$
:= $3 + (((3+3) \times (3^{3+3} + 3^3)) + 3)$
:= $444 + ((4+4)^4 + (4+4)/4)$
:= $55/5 + (5555 - (5 - 5/5)^5)$
:= $6 + (6 \times (6 \times ((66-6) + 66)))$
:= $777 + (7 \times 7 \times 77 - (7/7 + 7))$
:= $(8 \times (8 \times (8 \times 8 + 8) - 8)) - (8+8)/8$
:= $((99/9) \times (((9+9)/9)^9 - 99)) - 9/9$
- 4543 := $1 + ((1+1) \times (1 + ((1+1)^{11} + (1+1) \times 111)))$
:= $2 + (2 \times (2^{22/2} + 222)) + 2/2$
:= $(3/3 + 3 + 3) \times (3 \times (3+3)^3 + 3/3)$
:= $4 + (((4+4)^4 - 4/4) + 444)$
:= $((5+5)/5 + 5) \times ((5^5 - 5)/5 + 5 \times 5)$
:= $6 + ((6 \times (6 \times ((66-6) + 66))) + 6/6)$
:= $7 \times (777 - ((7+7)/7)^7)$
:= $(8 \times (8 \times (8 \times 8 + 8) - 8)) - 8/8$
:= $99/9 \times (((9+9)/9)^9 - 99)$
- 4544 := $(1+1) \times ((1+1)^{11} + (1+1) \times (1+111))$
:= $2 \times (2^{22/2} + 222) + 2$
:= $((3/3 + 3)^3) \times (((3+3)^3 - 3)/3)$
:= $4 + (444 + (4+4)^4)$
:= $(5 - 5/5) \times (5555/5 + 5 \times 5)$
:= $((6+6)/6)^6 \times ((66 - 6/6) + 6)$
:= $7/7 + ((7 \times 7 \times 77 - 7) + 777)$
:= $8 \times (8 \times (8 \times 8 + 8) - 8)$
:= $9 + (((9 \times ((9+9)/9)^9 - 9)) - 9/9) + 9$
- 4545 := $1 + ((1+1) \times ((1+1)^{11} + (1+1) \times (1+111)))$
:= $2/2 + (2 \times (2^{22/2} + 222) + 2)$
:= $3 \times ((3 \times ((3+3) \times (3 \times 3^3 + 3))) + 3)$
:= $4 + ((444 + (4+4)^4) + 4/4)$
:= $5^5 + ((5 \times ((5 \times 55 + 5) + 5)) - 5)$
:= $(666/6 \times (6 \times 6 - 6/6 + 6)) - 6$
:= $(7+7)/7 + ((7 \times 7 \times 77 - 7) + 777)$
:= $8/8 + (8 \times (8 \times (8 \times 8 + 8) - 8))$
:= $9 + (9 \times (((9+9)/9)^9 - 9)) + 9$
- 4546 := $(1+1) \times (1 + ((1+1)^{11} + (1+1) \times (1+111)))$
:= $2 + (2 \times (2^{22/2} + 222) + 2)$
:= $3 + ((3/3 + 3 + 3) \times (3 \times (3+3)^3 + 3/3))$
:= $4 + ((444 + (4+4)/4) + (4+4)^4)$
:= $5 + (((5555 - (5 - 5/5)^5) + 5) + 5)$
:= $66 + (((6+6)/6)^6 \times (((6+6)/6)^6 + 6))$
:= $7 + ((7 \times 7 \times 77 - (77/7)) + 777)$
:= $(8+8)/8 + (8 \times (8 \times (8 \times 8 + 8) - 8))$
:= $9 + (((9 \times ((9+9)/9)^9 - 9)) + 9/9) + 9$
- 4547 := $111 + ((1+1) \times ((1+1) \times (1111 - (1+1))))$
:= $222/2 + (2 \times (2222 - (2+2)))$
:= $3 + (((3/3 + 3)^3) \times (((3+3)^3 - 3)/3))$
:= $4 + (((4+4)^4 - 4/4) + 444) + 4$
:= $5 + ((5555 - (5 - 5/5)^5) + (55/5))$
:= $66/6 + (6 \times (6 \times ((66-6) + 66)))$
:= $77 + ((7 \times (7 \times (77 + 7 + 7))) + (77/7))$
:= $88/8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 8))$
:= $9 + (9 \times (((9+9)/9)^9 - 9)) + (99/9)$
- 4548 := $(1+1) \times ((1+1)^{11} + ((1+1) \times (1+1+111)))$
:= $2 \times (((2^{22/2} + 222) + 2) + 2)$
:= $3 + (((3+3) \times (3^{3+3} + 3^3)) + 3 \times 3)$
:= $4 + ((444 + (4+4)^4) + 4)$
:= $5 + (((5+5)/5 + 5) \times ((5^5 - 5)/5 + 5 \times 5))$
:= $6 + ((6 \times (6 \times ((66-6) + 66))) + 6)$
:= $777 + (7 \times 7 \times 77 - ((7+7)/7))$
:= $(8/((8+8)/8)) + (8 \times (8 \times (8 \times 8 + 8) - 8))$
:= $9 + (9 \times (((9+9)/9)^9 - 9)) + (99+9)/9$
- 4549 := $111 + ((1+1) \times ((1+1) \times (1111 - 1)) - 1)$
:= $222/2 + ((2 \times (2222 - 2)) - 2)$
:= $((3/3 + 3) \times (3333/3 + 3^3)) - 3$
:= $4 + (((444 + (4+4)^4) + 4/4) + 4)$
:= $5^5 + ((5 \times ((5 \times 55 + 5) + 5)) - 5/5)$
:= $66 + (((66+6)/6)^{6+6}/6) - 6$
:= $777 + (7 \times 7 \times 77 - 7/7)$
:= $8 + (((8 \times (8 \times (8 \times 8 + 8) - 8)) - (88/8)) + 8)$
:= $((99+99)/9) + (9 \times (((9+9)/9)^9 - 9))$
- 4550 := $(11 - 1) \times (11 + ((1+1) \times (1+1) \times 111))$
:= $(22/2 + 2) \times ((22 \times 2^{2+2}) - 2)$
:= $3 + (3/3 + 3)^3 \times ((3+3)^3 - 3)/3 + 3$
:= $444 + ((44 - 4)/4 + (4+4)^4)$
:= $5^5 + (5 \times ((5 \times 55 + 5) + 5))$
:= $(66 - 6/6) \times (((6+6)/6)^6 + 6)$
:= $777 + 7 \times 7 \times 77$
:= $8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) - ((8+8)/8))$
:= $(99999/9) - 9 \times 9 \times 9 \times 9$
- 4551 := $111 \times (1 + ((1+1) \times ((1+1) \times (11 - 1))))$
:= $222/2 + (2 \times (2222 - 2))$
:= $(33 \times (333/3 + 3^3)) - 3$
:= $444 + (44/4 + (4+4)^4)$
:= $5^5 + ((5 \times ((5 \times 55 + 5) + 5)) + 5/5)$
:= $666/6 \times (6 \times 6 - 6/6 + 6)$
:= $7/7 + (7 \times 7 \times 77 + 777)$
:= $8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) - 8/8)$
:= $999/9 \times ((9 \times 9 \times 9 + 9) / (9+9))$
- 4552 := $1 + (111 \times (1 + ((1+1) \times ((1+1) \times (11 - 1))))$
:= $((2/2 + 2)^2 \times (22^2 + 22)) - 2$
:= $(3/3 + 3) \times (3333/3 + 3^3)$
:= $4 + (((444 + (4+4)^4) + 4) + 4)$
:= $5^5 + ((5 \times ((5 \times 55 + 5) + 5)) + ((5+5)/5))$
:= $66 + (((6+6)/6)^{6+6}) - 6 + 6 \times 66$
:= $(7+7)/7 + (7 \times 7 \times 77 + 777)$
:= $8 + (8 \times (8 \times (8 \times 8 + 8) - 8))$
:= $9 + ((99/9) \times (((9+9)/9)^9 - 99))$

$$\begin{aligned}
\blacktriangleright 4553 &:= 111 + ((1+1) \times (((1+1) \times 1111) - 1)) \\
&:= 222/2 + ((2 \times 2222) - 2) \\
&:= (33 \times (333/3 + 3^3)) - 3/3 \\
&:= 44 + ((4^4 + 4)/4 + 4444) \\
&:= 55 + ((5 \times 5 \times 55 - ((5+5)/5)) + 5^5) \\
&:= (66 \times (6 \times 6/(6+6) + 66)) - 6/6 \\
&:= ((77 - 7/7) \times (77/7 + 7 \times 7)) - 7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) + 8/8) \\
&:= 9 + (((9 \times (((9+9)/9)^9) - 9) - 9/9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4554 &:= 111 + (((1+1) \times ((1+1) \times 1111)) - 1) \\
&:= (2/2 + 2)^2 \times (22^2 + 22) \\
&:= 33 \times (333/3 + 3^3) \\
&:= 4444 + (444 - 4)/4 \\
&:= 55 + ((5 \times 5 \times 55 - 5/5) + 5^5) \\
&:= 66 \times (6 \times 6/(6+6) + 66) \\
&:= (7 - 7/7) \times (777 - (77/7 + 7)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) + ((8+8)/8)) \\
&:= 9 + (((9 \times (((9+9)/9)^9) - 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4555 &:= 111 + ((1+1) \times ((1+1) \times 1111)) \\
&:= 222/2 + (2 \times 2222) \\
&:= 3/3 + (33 \times (333/3 + 3^3)) - 3 \\
&:= 4444 + 444/4 \\
&:= 55 + (5 \times 5 \times 55 + 5^5) \\
&:= 66 + ((66 + 6/6)^{(6+6)/6}) \\
&:= 7 + ((7 \times 7 \times 77 - ((7+7)/7)) + 777) \\
&:= 88/8 + (8 \times (8 \times (8 \times 8 + 8) - 8)) \\
&:= 9 + (((9 \times (((9+9)/9)^9) - 9) + 9/9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4556 &:= 1 + (111 + ((1+1) \times ((1+1) \times 1111))) \\
&:= 2 + ((2/2 + 2)^2 \times (22^2 + 22)) \\
&:= 3 + ((33 \times (333/3 + 3^3)) - 3/3) \\
&:= 4 \times 4 + (444 + (4+4)^4) \\
&:= 5 \times 5 + (5555 - (5 - 5/5)^5) \\
&:= (66 + 6/6) \times (((6+6)/6) + 66) \\
&:= 7 + ((7 \times 7 \times 77 - 7/7) + 777) \\
&:= ((88 + 8)/8) + (8 \times (8 \times (8 \times 8 + 8) - 8)) \\
&:= 9 + (((9 \times (((9+9)/9)^9) - 9) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4557 &:= 111 + ((1+1) \times (1 + ((1+1) \times 1111))) \\
&:= 2 + ((2 \times 2222) + 222/2) \\
&:= 3 + (33 \times (333/3 + 3^3)) \\
&:= 4 \times 4 + ((444 + (4+4)^4) + 4/4) \\
&:= ((5+5)/5 + 5) \times ((5^5 + 5)/5 + 5 \times 5) \\
&:= 6 + (666/6 \times (6 \times 6 - 6/6 + 6)) \\
&:= 7 + (7 \times 7 \times 77 + 777) \\
&:= (8 - 8/8) \times (8 \times (88 - 8) + (88/8)) \\
&:= 999/9 + (9 \times (((9+9)/9)^9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4558 &:= 1 + (111 + ((1+1) \times (1 + ((1+1) \times 1111)))) \\
&:= 22^2 + (2^{2 \times (2+2+2)} - 22) \\
&:= 3 + ((33 \times (333/3 + 3^3)) + 3/3) \\
&:= 4 + ((444 - 4)/4 + 4444) \\
&:= (555/5 - 5) \times (55 - ((55+5)/5)) \\
&:= 66 + (((6+6)/6)^{6+6} + 6 \times 66) \\
&:= 7 + ((7 \times 7 \times 77 + 777) + 7/7) \\
&:= (8 \times 8 - 88/8) \times (88 - ((8+8)/8)) \\
&:= 9 \times ((9+9)/9)^9 - ((9 \times 99 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4559 &:= 111 + ((1+1) \times ((1+1) \times (1 + 1111))) \\
&:= 222/2 + 2 \times (2222 + 2) \\
&:= (3 \times ((33 + 3 + 3)^{3-3/3})) - (3/3 + 3) \\
&:= 4 + (4444 + 444/4) \\
&:= 5 + (((5 \times 5 \times 55 - 5/5) + 5^5) + 55) \\
&:= 6 + ((66 \times (6 \times 6/(6+6) + 66)) - 6/6) \\
&:= (7 \times 7 - (7+7)/7) \times (7 \times (7+7) - 7/7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 + 8) - 8)) - 8/8) + 8) \\
&:= 9 + ((99999/9) - 9 \times 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4560 &:= (11^{1+1} - 1) \times (1 + (111/(1+1+1))) \\
&:= 2 \times (((2 \times (22+2))^2) - (22+2)) \\
&:= (3 \times ((33+3+3)^{3-3/3})) - 3 \\
&:= 4 + ((444 + (4+4)^4) + 4 \times 4) \\
&:= 5 + ((5 \times 5 \times 55 + 5^5) + 55) \\
&:= 6 + (66 \times (6 \times 6/(6+6) + 66)) \\
&:= (77 - 7/7) \times (77/7 + 7 \times 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) + 8) \\
&:= 9 + (999/9 \times ((9 \times 9 \times 9 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4561 &:= 1 + ((11^{1+1} - 1) \times (1 + (111/(1+1+1)))) \\
&:= (22/2)^2 + (2 \times (2222 - 2)) \\
&:= ((3+3) \times (3^{3+3} + 33)) - 33/3 \\
&:= 4 + (((444 + (4+4)^4) + 4 \times 4) + 4/4) \\
&:= 5 + (((5 \times 5 \times 55 + 5^5) + 55) + 5/5) \\
&:= 6 + (((66 + 6/6)^{(6+6)/6}) + 66) \\
&:= 77/7 + (7 \times 7 \times 77 + 777) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 + 8) - 8)) + 8/8) + 8) \\
&:= 9 + (((99/9) \times (((9+9)/9)^9) - 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4562 &:= 11 + (111 \times (1 + ((1+1) \times ((1+1) \times (11-1)))))) \\
&:= (2 \times (((2 \times (22+2))^2) - 22)) - 2 \\
&:= (3 \times ((33+3+3)^{3-3/3})) - 3/3 \\
&:= 4 + (((444 - 4)/4 + 4444) + 4) \\
&:= 5 + (((5+5)/5 + 5) \times ((5^5 + 5)/5 + 5 \times 5)) \\
&:= 6 + ((66 + 6/6) \times (((6+6)/6) + 66)) \\
&:= 777 + (7 \times 7 \times 77 + (77+7)/7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 + 8) - 8)) + ((8+8)/8)) + 8) \\
&:= 999 + (((9+9) \times (99+99)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4563 &:= (1+1+1) \times ((1+1+1) \times (1+1+11))^{1+1} \\
&:= (2/2 + 2) \times ((2 \times (22 - 2) - 2/2)^2) \\
&:= 3 \times ((33 + 3 + 3)^{3-3/3}) \\
&:= 4 + ((4444 + 444/4) + 4) \\
&:= (5 \times (5 - 5/5)^5) - (555 + (5+5)/5) \\
&:= 6 + ((666/6 \times (6 \times 6 - 6/6 + 6)) + 6) \\
&:= (7 - 7/7 + 7) \times ((7 \times 7 \times 7 + 7/7) + 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 8) - 8)) + (88/8)) \\
&:= 999 + ((9+9) \times (99+99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4564 &:= 1 + ((1+1+1) \times ((1+1+1) \times (1+1+11))^{1+1}) \\
&:= 2 \times (((2 \times (22+2))^2) - 22) \\
&:= 3/3 + (3 \times ((33+3+3)^{3-3/3})) \\
&:= 4^4 + (((4+4)^4 - 44) + 4^4) \\
&:= (5 \times (5 - 5/5)^5) - (555 + 5/5) \\
&:= (6 \times (66 + 6 + 6)) + (((6+6)/6)^{6+6}) \\
&:= 7 + ((7 \times 7 \times 77 + 777) + 7) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (88/(8+8)/8) \\
&:= ((9/9 + 9 + 9) + 9) \times (9 \times (9+9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4565 &:= 11^{1+1} + ((1+1) \times ((1+1) \times 1111)) \\
&:= (22/2)^2 + (2 \times 2222) \\
&:= 3 + ((3 \times ((33+3+3)^{3-3/3})) - 3/3) \\
&:= (4/4 + 4) \times (4 \times 4^4 - 444/4) \\
&:= (5 \times (5 - 5/5)^5) - 555 \\
&:= 6 \times 6 \times 6 + (66 \times 66 - (6/6 + 6)) \\
&:= ((7 \times 7 - 7/7) + 7) \times (77 - 7/7 + 7) \\
&:= 8 + ((8 - 8/8) \times (8 \times (88 - 8) + (88/8))) \\
&:= (((9+9)/9) + 9 \times 9) \times ((999 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4566 &:= 1 + (11^{1+1} + ((1+1) \times ((1+1) \times 1111))) \\
&:= 2 + (2 \times (((2 \times (22+2))^2) - 22)) \\
&:= 3 + (3 \times ((33+3+3)^{3-3/3})) \\
&:= 4444 + (444 + 44)/4 \\
&:= 5/5 + ((5 \times (5 - 5/5)^5) - 555) \\
&:= 6 \times 6 \times 6 + (66 \times 66 - 6) \\
&:= 7 + (7 \times 7 - (7+7)/7) \times (7 \times (7+7) - 7/7) \\
&:= 8 + ((8 \times 8 - 88/8) \times (88 - ((8+8)/8))) \\
&:= 999/9 + (9 \times ((9+9) \times (9+9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4567 &:= 1111 + ((1+1) \times ((1+11)^{1+1+1})) \\
&:= 2 + ((2 \times 2222) + (22/2)^2) \\
&:= 3 + ((3 \times ((33+3+3)^{3-3/3})) + 3/3) \\
&:= 4 + (((4444 + 444/4) + 4) + 4) \\
&:= (5+5)/5 + ((5 \times (5 - 5/5)^5) - 555) \\
&:= 6/6 + ((66 \times 66 - 6) + 6 \times 6 \times 6) \\
&:= 7 + ((77 - 7/7) \times (77/7 + 7 \times 7)) \\
&:= 88 + ((8 \times 8 - 8) \times (88 - 8) - 8/8) \\
&:= 9 \times ((9+9)/9)^9 - ((9 \times 9 \times 9 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4568 &:= 1 + (1111 + ((1 + 1) \times ((1 + 11)^{1+1+1}))) \\
&:= 2 \times (((2 \times (22 + 2))^2) - 22) + 2) \\
&:= ((3 + 3) \times (3^{3+3} + 33)) - (3/3 + 3) \\
&:= 4444 + (4 \times 4 \times (4 + 4) - 4) \\
&:= 5^5 + (555/5 \times (55 + 5 + 5)/5) \\
&:= 6 + (((66 + 6/6) \times (((6 + 6)/6) + 66)) + 6) \\
&:= 7 + ((7 \times 7 \times 77 + 777) + (77/7)) \\
&:= 88 + (8 \times 8 - 8) \times (88 - 8) \\
&:= 9 \times ((9 + 9)/9)^9 + ((9 - 9 \times 9 \times 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4569 &:= 11^{1+1} + ((1 + 1) \times ((1 + 1) \times (1 + 1111))) \\
&:= (22/2)^2 + 2 \times (2222 + 2) \\
&:= ((3 + 3) \times (3^{3+3} + 33)) - 3 \\
&:= 44 + (4444 + (4 - 4/4)^4) \\
&:= 5 + ((5 \times (5 - 5/5)^5) - (555 + 5/5)) \\
&:= ((6 + 6) \times (6 \times 66 - 6)) - 666/6 \\
&:= (777 - 7)/7 + (7 \times (7 \times (77 + 7 + 7))) \\
&:= 8/8 + ((8 \times 8 - 8) \times (88 - 8) + 88) \\
&:= 9 \times (((9 + 9)/9)^9 + 9) - (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4570 &:= (11 - 1) \times (11 + ((1 + 1) \times (1 + (1 + 1) \times 111))) \\
&:= 2 + (2 \times (((2 \times (22 + 2))^2) - 22) + 2) \\
&:= 3/3 + (((3 + 3) \times (3^{3+3} + 33)) - 3) \\
&:= 4444 + ((4^4 - 4)/((4 + 4)/4)) \\
&:= 5 + ((5 \times (5 - 5/5)^5) - 555) \\
&:= 6 \times 6 \times 6 + (66 \times 66 - ((6 + 6)/6)) \\
&:= 777/7 + (7 \times (7 \times (77 + 7 + 7))) \\
&:= 88 + ((8 \times 8 - 8) \times (88 - 8) + (8 + 8)/8) \\
&:= 9 \times ((9 + 9)/9)^9 - ((99/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4571 &:= 1 + ((11 - 1) \times (11 + ((1 + 1) \times (1 + (1 + 1) \times 111)))) \\
&:= 2 + (2 \times (2222 + 2) + (22/2)^2) \\
&:= ((3 + 3) \times (3^{3+3} + 33)) - 3/3 \\
&:= 4 \times 4 + (4444 + 444/4) \\
&:= (5/5 + 5)^5 - ((55 + 5^5) + 5 \times 5) \\
&:= 6 \times 6 \times 6 + (66 \times 66 - 6/6) \\
&:= (77 \times (77/7 + 7 \times 7)) - 7 \times 7 \\
&:= 8 + (((8 \times (8 \times (8 \times 8 + 8) - 8)) + (88/8)) + 8) \\
&:= 9 \times ((9 + 9)/9)^9 - (((9/9 + 9 + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4572 &:= (1 + 11) \times (11 + ((1111 - 1)/(1 + 1 + 1))) \\
&:= 2 \times (2^{2+2+2} + 2222) \\
&:= (3 + 3) \times (3^{3+3} + 33) \\
&:= 4444 + 4 \times 4 \times (4 + 4) \\
&:= (55/5 + 5 \times 5) \times (5 \times 5 \times 5 + ((5 + 5)/5)) \\
&:= 6 \times 6 \times 6 + 66 \times 66 \\
&:= (7 - 7/7) \times (777 - (7/7 + 7 + 7)) \\
&:= 8 \times (8 + 8) + (8888/((8 + 8)/8)) \\
&:= 9 \times (((9 \times 999 - 9)/(9 + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4573 &:= 1 + ((1 + 11) \times (11 + ((1111 - 1)/(1 + 1 + 1)))) \\
&:= 2/2 + (2 \times (2^{2+2+2} + 2222)) \\
&:= 3/3 + ((3 + 3) \times (3^{3+3} + 33)) \\
&:= 4/4 + (4444 + 4 \times 4 \times (4 + 4)) \\
&:= (((55 + 5)/5) + 5) \times (5 \times 55 - (5/5 + 5)) \\
&:= 6/6 + (66 \times 66 + 6 \times 6 \times 6) \\
&:= ((7 - 7/7) \times (777 - ((7 + 7)/7))) - 77 \\
&:= 8 \times 8 + (8/8 + 8) \times (8 \times 8 \times 8 - 88/8) \\
&:= 9 + (((9/9 + 9 + 9) + 9) \times (9 \times (9 + 9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4574 &:= 11 + ((1 + 1 + 1) \times ((1 + 1 + 1) \times (1 + 1 + 111)))^{1+1} \\
&:= 2 + (2 \times (2^{2+2+2} + 2222)) \\
&:= 3 + (((3 + 3) \times (3^{3+3} + 33)) - 3/3) \\
&:= 4444 + ((4^4 + 4)/((4 + 4)/4)) \\
&:= ((5 + 5 + 5) \times (5 \times (55 + 5) + 5)) - 5/5 \\
&:= 6 \times 6 \times 6 + (66 \times 66 + ((6 + 6)/6)) \\
&:= 7 + (((77 - 7/7) \times (77/7 + 7 \times 7)) + 7) \\
&:= (88 \times ((88/((8 + 8)/8)) + 8)) - (8 + 8)/8 \\
&:= 9 + (((9 + 9)/9) + 9 \times 9) \times ((999 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4575 &:= (((11 + (11 - 1))^{1+1+1}) - 111)/(1 + 1) \\
&:= 22/2 + (2 \times (((2 \times (22 + 2))^2) - 22)) \\
&:= 3 + ((3 + 3) \times (3^{3+3} + 33)) \\
&:= (4 + 4)^4 + (((44 \times 44 - 4)/4) - 4) \\
&:= (5 + 5 + 5) \times (5 \times (55 + 5) + 5) \\
&:= 6 + (((6 + 6) \times (6 \times 66 - 6)) - 666/6) \\
&:= (7/7 + 7 + 7) \times (7 \times (7 \times 7 - 7) + (77/7)) \\
&:= (88 \times ((88/((8 + 8)/8)) + 8)) - 8/8 \\
&:= 9 \times ((9 + 9)/9)^9 - (99/((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4576 &:= 11 \times ((1 + 1 + 11) \times ((11 \times (1 + 1 + 1)) - 1)) \\
&:= 2 \times (2 \times (2 \times (22 \times (22 + 2 + 2)))) \\
&:= 3 + (((3 + 3) \times (3^{3+3} + 33)) + 3/3) \\
&:= 44 \times ((44 + 44) + 4 \times 4) \\
&:= 5/5 + ((5 + 5 + 5) \times (5 \times (55 + 5) + 5)) \\
&:= 6 + ((66 \times 66 - ((6 + 6)/6)) + 6 \times 6 \times 6) \\
&:= ((7 + 7) \times (7 \times 7 \times 7 - 7)) - ((7 + 7)/7)^7 \\
&:= 88 \times ((88/((8 + 8)/8)) + 8) \\
&:= 9 \times 9 + ((9 \times 999 - 9/9)/(9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4577 &:= 1 + (11 \times ((1 + 1 + 11) \times ((11 \times (1 + 1 + 1)) - 1))) \\
&:= (22 + 2/2) \times (((22 - 2)^2 - 2)/2) \\
&:= (33/3 + 3 + 3)^3 - (333 + 3) \\
&:= 4/4 + ((4 + 4) \times 444 + 4 \times 4^4) \\
&:= (5 + 5)/5 + ((5 + 5 + 5) \times (5 \times (55 + 5) + 5)) \\
&:= 6 + ((66 \times 66 - 6/6) + 6 \times 6 \times 6) \\
&:= ((7 - 7/7) \times (777 - (7 + 7))) - 7/7 \\
&:= 8/8 + (88 \times ((88/((8 + 8)/8)) + 8)) \\
&:= 9 \times 9 + ((9 \times 999 + 9/9)/(9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4578 &:= (1 + 1) \times ((11 + (11 - 1)) \times (111 - 1 - 1)) \\
&:= 222 + (2^{2+2+2} + 2)^2 \\
&:= 3 + (((3 + 3) \times (3^{3+3} + 33)) + 3) \\
&:= (4 + 4)^4 + ((44 \times 44 - (4 + 4))/4) \\
&:= 5^5 + (((5/5 + 5) \times ((5 - (5 + 5)/5)^5)) - 5) \\
&:= 6 + (66 \times 66 + 6 \times 6 \times 6) \\
&:= (7 - 7/7) \times (777 - (7 + 7)) \\
&:= (8 + 8)/8 + (88 \times ((88/((8 + 8)/8)) + 8)) \\
&:= 9 \times (((9 + 9)/9)^9 + 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4579 &:= ((1 + 1)^{1+1+1}) + (((11 + 11)^{1+1}) - 1) \\
&:= 22^2 + (2^{2 \times (2+2+2)} - 2/2) \\
&:= 3 + (((3 + 3) \times (3^{3+3} + 33)) + 3/3 + 3) \\
&:= (4 + 4)^4 + ((44 \times 44 - 4)/4) \\
&:= 5 + (((5 + 5 + 5) \times (5 \times (55 + 5) + 5)) - 5/5) \\
&:= 6 + ((66 \times 66 + 6 \times 6 \times 6) + 6/6) \\
&:= 7/7 + ((7 - 7/7) \times (777 - (7 + 7))) \\
&:= 88 + ((8 \times 8 - 8) \times (88 - 8) + (88/8)) \\
&:= 9 \times ((9 + 9)/9)^9 - (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4580 &:= ((1 + 1)^{1+1+1}) + ((11 + 11)^{1+1}) \\
&:= 22^2 + 2^{2 \times (2+2+2)} \\
&:= (33/3 + 3 + 3)^3 - 333 \\
&:= (4 + 4)^4 + (44 \times 44/4) \\
&:= 5 + ((5 + 5 + 5) \times (5 \times (55 + 5) + 5)) \\
&:= 6 + ((66 \times 66 + 6 \times 6 \times 6) + ((6 + 6)/6)) \\
&:= (7 + 7)/7 + ((7 - 7/7) \times (777 - (7 + 7))) \\
&:= 8 \times 8 \times 8 + 88 \times 88/(8 + 8) \\
&:= 9 \times ((9 + 9)/9)^9 - ((9/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4581 &:= 1 + (((1 + 1)^{1+1+1}) + ((11 + 11)^{1+1})) \\
&:= 2/2 + (2^{2 \times (2+2+2)} + 22^2) \\
&:= 3 \times (3 \times (((3 - 3/3)^{3 \times 3}) - 3)) \\
&:= (4 + 4)^4 + ((44 \times 44 + 4)/4) \\
&:= 5^5 + ((5 \times 5 + 5/5) \times (55 + 5/5)) \\
&:= 6 + (((6 + 6) \times (6 \times 66 - 6)) - 666/6) + 6) \\
&:= 7 \times 7 \times 7 + 7 + (((7 + 7 + 7)/7)^7 - 7) \\
&:= (8/8 + 8) \times ((8 \times 8 \times 8 - 88/8) + 8) \\
&:= 9 \times ((9 + 9)/9)^9 - (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4582 &:= 1 + (1 + (((1 + 1)^{1+1+1}) + ((11 + 11)^{1+1}))) \\
&:= 2 + (2^{2 \times (2+2+2)} + 22^2) \\
&:= 3/3 + (3 \times (3 \times (((3 - 3/3)^{3 \times 3}) - 3))) \\
&:= (4 + 4)^4 + (((44 \times 44 + 4) + 4)/4) \\
&:= 5 + (((5 + 5 + 5) \times (5 \times (55 + 5) + 5)) + ((5 + 5)/5)) \\
&:= 6 \times 6 \times 6 + (((66 - 6)/6) + 66 \times 66) \\
&:= ((7 + 7)/7 + 77) \times (((7 + 7)/7 + 7 \times 7) + 7) \\
&:= ((8/8 + 8) \times (8 \times 8 \times 8 - ((8 + 8)/8))) - 8 \\
&:= 9/9 + (9 \times ((9 + 9)/9)^9 - (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4583 &:= 1 + (1 + (1 + (((1 + 1)^{1+11}) + ((11 + 11)^{1+1})))) \\
&:= 2 + ((2^{2 \times (2+2+2)} + 22^2) + 2/2) \\
&:= 3 + ((33/3 + 3 + 3)^3 - 333) \\
&:= 4 + (((44 \times 44 - 4)/4) + (4 + 4)^4) \\
&:= 5^5 + ((5/5 + 5) \times ((5 - (5 + 5)/5)^5)) \\
&:= 6 \times 6 \times 6 + (66 \times 66 + (66/6)) \\
&:= 7 + (((7 + 7) \times (7 \times 7 \times 7 - 7)) - ((7 + 7)/7)^7) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (8/8 + 8 + 8 + 8) \\
&:= (9 + 9)/9 + (9 \times ((9 + 9)/9)^9 - (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4584 &:= (1 + 1) \times ((1 + 1)^{11} + ((1 + 1) \times (1 + 11^{1+1}))) \\
&:= 2 \times (2 \times ((2 \times ((22 + 2)^2) - 2)) - 2) \\
&:= 3 + (3 \times (3 \times (((3 - 3/3)^{3 \times 3}) - 3))) \\
&:= 44 + (444 + (4 + 4)^4) \\
&:= 5 + (((5 + 5 + 5) \times (5 \times (55 + 5) + 5)) - 5/5) + 5) \\
&:= 6 + ((66 \times 66 + 6 \times 6 \times 6) + 6) \\
&:= (7 - 7/7) \times ((777 - (7 + 7)) + 7/7) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - 8 - 8 - 8 \\
&:= 9 + (9 \times ((9 + 9)/9)^9 - (99/((9 + 9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4585 &:= ((11 \times (1 + 11)) - 1) \times (1 + (1 + 11 \times (1 + 1 + 1))) \\
&:= 2 \times ((2 \times (22 + 2)^2) - 22 - 2/2) \\
&:= 3 + ((3 \times (3 \times (((3 - 3/3)^{3 \times 3}) - 3))) + 3/3) \\
&:= 4 + (((44 \times 44 + 4)/4) + (4 + 4)^4) \\
&:= 5 + (((5 + 5 + 5) \times (5 \times (55 + 5) + 5)) + 5) \\
&:= (6/6 + 6) \times (666 - 66/6) \\
&:= ((7 - 7/7) \times 777) - 77 \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 + 8) - (8 + 8 + 8)) \\
&:= 9 \times ((9 + 9)/9)^9 - (99 + 99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4586 &:= (1 + 1) \times (((1 + 1) \times ((1 + 1) \times (1 + 11)))^{1+1}) - 11) \\
&:= 2 \times ((2 \times (22 + 2)^2) - 22) \\
&:= 3 + (((33/3 + 3 + 3)^3 - 333) + 3) \\
&:= ((4^4 - 4/4) \times ((4 + 4)/4 + 4 \times 4)) - 4 \\
&:= 55 + (5555 - (5 - 5/5)^5) \\
&:= 6 \times 6 + ((66 - 6/6) \times (((6 + 6)/6)^6 + 6)) \\
&:= 7/7 + (((7 - 7/7) \times 777) - 77) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (88 + 88)/8 \\
&:= 9 \times ((9 + 9)/9)^9 - ((99 + 99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4587 &:= 11 \times ((11 \times (1 + (111/(1 + 1 + 1)))) - 1) \\
&:= 2/2 + 2 \times ((2 \times (22 + 2)^2) - 22) \\
&:= 3 \times (33 \times (3 + 3) + (33/3)^3) \\
&:= 4 + (((44 \times 44 - 4)/4) + (4 + 4)^4) + 4 \\
&:= 55/5 \times ((5^5 + 5^5 + 5)/(5 + 5 + 5)) \\
&:= 6 \times 6 + (666/6 \times (6 \times 6 - 6/6 + 6)) \\
&:= ((7 + 7)/7)^7 + (7 \times (7 \times (77 + 7 + 7))) \\
&:= 88/8 + (88 \times ((88/(8 + 8)/8) + 8)) \\
&:= 9 \times ((9 + 9)/9)^9 - ((99 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4588 &:= 1 + (11 \times ((11 \times (1 + (111/(1 + 1 + 1)))) - 1)) \\
&:= 2 + ((2 \times ((2 \times (22 + 2)^2) - 22)) - 22) \\
&:= 3/3 + (((3 + 3) \times 3^{3+3}) - 3) + (3 + 3)^3 \\
&:= 4 + ((444 + (4 + 4)^4) + 44) \\
&:= (((5 + 5)/5)^5 + 5) \times (5 \times 5 \times 5 - 5/5) \\
&:= (((6 + 6)/6) + 66)^{(6+6)/6} - 6 \times 6 \\
&:= 7 \times 7 \times 7 \times 7 + ((7 + 7 + 7)/7)^7 \\
&:= 8 \times 8 \times (8 \times 8 + 8) - ((88 + 8)/8 + 8) \\
&:= 9 \times ((9 + 9)/9)^9 - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4589 &:= (1 + 1)^{11} + (11 \times (11 \times (11 + (11 - 1)))) \\
&:= 2 + (((2 \times ((2 \times (22 + 2)^2) - 22)) + 2/2) \\
&:= (3 + 3)^3 + (((3 + 3) \times 3^{3+3}) - 3/3) \\
&:= 4^4 + (4444 - 444/4) \\
&:= 5^5 + ((5 \times 5 - 5/5) \times ((55 + 5/5) + 5)) \\
&:= (6 \times (((6 \times 6/(6 + 6))^6) + 6 \times 6)) - 6/6 \\
&:= ((7 - 7/7) \times (777 - (77/7))) - 7 \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (88/8 + 8) \\
&:= 9 \times ((9 + 9)/9)^9 - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4590 &:= (11 - 1 - 1) \times ((1 + 1)^{11-1-1} - (1 + 1)) \\
&:= (2 \times (((2 \times (22 + 2)^2) + 2)) - 22) \\
&:= (3 + 3) \times ((3^{3+3} + 33) + 3) \\
&:= (4^4 - 4/4) \times ((4 + 4)/4 + 4 \times 4) \\
&:= (5 \times 55 - 5) \times (((55 + 5)/5) + 5) \\
&:= 6 \times (((6 \times 6/(6 + 6))^6) + 6 \times 6) \\
&:= (7 - 7/7) \times (777 - (77 + 7)/7) \\
&:= (8/8 + 8) \times (8 \times 8 \times 8 - ((8 + 8)/8)) \\
&:= 9 \times ((9 + 9)/9)^9 - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4591 &:= 1 + ((11 - 1 - 1) \times ((1 + 1)^{11-1-1} - (1 + 1))) \\
&:= (2 \times (2 \times (2 \times (((22 + 2)^2) - 2)))) - 2/2 \\
&:= 3/3 + (((3 + 3) \times 3^{3+3}) + (3 + 3)^3) \\
&:= 4^4 + ((4 \times 4 + 4/4) \times (4^4 - 4/4)) \\
&:= (5/5 + 5)^5 - (55 + 5^5 + 5) \\
&:= 6 + ((6/6 + 6) \times (666 - 66/6)) \\
&:= 7 \times 777 - ((77 \times 77 + 7)/7) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (8/8 + 8 + 8) \\
&:= 9/9 + (9 \times ((9 + 9)/9)^9 - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4592 &:= (1 + 111) \times (1 + ((1 + 1) \times ((1 + 1) \times (11 - 1)))) \\
&:= 2 \times (2 \times (2 \times (((22 + 2)^2) - 2))) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) - 3/3) + (3 + 3)^3 \\
&:= 4 \times (4 \times 4 \times 44 + 444) \\
&:= 5/5 + ((5/5 + 5)^5 - (55 + 5^5 + 5)) \\
&:= (6/6 + 6) \times (((6 - 66)/6) + 666) \\
&:= 7 + (((7 - 7/7) \times 777) - 77) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - 8 - 8 \\
&:= (9 + 9)/9 + (9 \times ((9 + 9)/9)^9 - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4593 &:= 1 + ((1 + 111) \times (1 + ((1 + 1) \times ((1 + 1) \times (11 - 1)))) \\
&:= 2/2 + (2 \times (2 \times (2 \times (((22 + 2)^2) - 2)))) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) + (3 + 3)^3) \\
&:= 4/4 + 4 \times (4 \times 4 \times 44 + 444) \\
&:= 5 + (((5 + 5)/5)^5 + 5) \times (5 \times 5 \times 5 - 5/5) \\
&:= ((6/6 + 6) \times (666 + 6)) - 666/6 \\
&:= 7 \times 777 + ((7 - 77 \times 77)/7) \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 + 8) - (8 + 8)) \\
&:= ((9 + 9 + 9)/9) + (9 \times ((9 + 9)/9)^9 - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4594 &:= 1 + (1 + ((1 + 111) \times (1 + ((1 + 1) \times ((1 + 1) \times (11 - 1)))) \\
&:= 2 + (2 \times (2 \times (2 \times (((22 + 2)^2) - 2)))) \\
&:= 3 + (((3 + 3) \times 3^{3+3}) + (3 + 3)^3) + 3/3 \\
&:= 4 + ((4^4 - 4/4) \times ((4 + 4)/4 + 4 \times 4)) \\
&:= 5^5 + (5 \times (5 \times (55 + 5) - 5) - (5/5 + 5)) \\
&:= 6 + (((6 + 6)/6) + 66)^{(6+6)/6} - 6 \times 6 \\
&:= 7 + ((7 \times (7 \times (77 + 7 + 7))) + ((7 + 7)/7)^7) \\
&:= (8 + 8)/8 + (8 \times 8 \times (8 \times 8 + 8) - (8 + 8)) \\
&:= 99 + ((9 \times 999 - 9/9)/(9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4595 &:= 111 + ((1 + 1) \times ((1 + 1) \times (11 + (1111 - 1)))) \\
&:= (2 \times ((2 \times (22 + 2)^2) - 22/2 + 2) \\
&:= (33/3)^3 + ((3 \times 33 \times 33) - 3) \\
&:= 4 + (((4 \times 4 + 4/4) \times (4^4 - 4/4)) + 4^4) \\
&:= 5^5 + (5 \times (5 \times (55 + 5) - 5) - 5) \\
&:= ((6/6 + 6) \times 666) - (66 + 6/6) \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 7 \times 7 \times 7 \times 7) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (88 + 8 + 8)/8 \\
&:= 9 \times ((9 + 9)/9)^9 - (99 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4596 &:= (1 + 1) \times ((11 \times (11 \times (((1 + 1) \times (11 - 1)) - 1))) - 1) \\
&:= 2 \times ((2 \times (2 \times (((22 + 2)^2) - 2))) + 2) \\
&:= (3 \times ((3 \times ((3 - 3/3)^{3 \times 3}) - 3)) - 3) \\
&:= 4 + 4 \times (4 \times 4 \times 44 + 444) \\
&:= (5/5 + 5)^5 - (55 + 5^5) \\
&:= ((6/6 + 6) \times 666) - 66 \\
&:= (7 - 7/7) \times (777 - (77/7)) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (88 + 8)/8 \\
&:= 9 \times ((9 + 9)/9)^9 - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4597 &:= ((11 - 1 - 1) \times (1 + 1)^{11-1-1}) - 11) \\
&:= (2 \times ((2 \times (22 + 2)^2) - 22/2) \\
&:= (3 \times (3 \times ((3 - 3/3)^{3 \times 3})) - 33/3) \\
&:= 4^4 + (((4 + 4)^4 - 44/4) + 4^4) \\
&:= 5/5 + ((5/5 + 5)^5 - (55 + 5^5)) \\
&:= 6/6 + (((6/6 + 6) \times 666) - 66) \\
&:= 7 + (((7 - 7/7) \times 777) - (77 + 7)/7) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - 88/8 \\
&:= 9 \times ((9 + 9)/9)^9 - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4598 &:= 11 \times (11 \times (1 + (111/(1+1+1)))) \\
&:= 22 \times (222 - (22/2 + 2)) \\
&:= (33/3)^3 + (3 \times 33 \times 33) \\
&:= 4 + (((4^4 - 4/4) \times ((4+4)/4 + 4 \times 4)) + 4) \\
&:= 5^5 + (5 \times (5 \times (55 + 5) - 5) - ((5+5)/5)) \\
&:= ((6/6+6) \times 666) - ((6+6)/6)^6 \\
&:= 777 + ((7 \times (7 \times 77 + 7)) - 7/7) \\
&:= (8 - 88)/8 + 8 \times 8 \times (8 \times 8 + 8) \\
&:= 9 \times ((9+9)/9)^9 - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4599 &:= (11 - 1 - 1) \times ((1+1)^{11-1-1} - 1) \\
&:= 2 + ((2 \times ((2 \times (22 + 2))^2)) - 22/2) \\
&:= 3 \times ((3 \times ((3 - 3/3)^{3 \times 3})) - 3) \\
&:= 44 + (4444 + 444/4) \\
&:= 5^5 + (5 \times (5 \times (55 + 5) - 5) - 5/5) \\
&:= (6/6 + 6) \times (((6 - 66) + 6)/6) + 666 \\
&:= 777 + (7 \times (7 \times 77 + 7)) \\
&:= (8/8 + 8) \times (8 \times 8 \times 8 - 8/8) \\
&:= 9 \times ((9+9)/9)^9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4600 &:= 1 + ((11 - 1 - 1) \times ((1+1)^{11-1-1} - 1)) \\
&:= 2 \times (2 \times ((2 \times ((22 + 2)^2)) - 2)) \\
&:= 3/3 + (3 \times ((3 \times ((3 - 3/3)^{3 \times 3})) - 3)) \\
&:= (44 - 4) \times (444/4 + 4) \\
&:= 5^5 + 5 \times (5 \times (55 + 5) - 5) \\
&:= (6 + 6) \times (6 \times 6 + 6) + (((6+6)/6)^{6+6}) \\
&:= 7/7 + ((7 \times (7 \times 77 + 7)) + 777) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - 8 \\
&:= 9/9 + (9 \times ((9+9)/9)^9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4601 &:= (1+1)^{11} + (111 \times (1 + (11+11))) \\
&:= 2/2 + (2 \times (2 \times ((2 \times ((22 + 2)^2)) - 2))) \\
&:= 3 + ((3 \times 33 \times 33) + (33/3)^3) \\
&:= (44 - 4/4) \times (444/4 - 4) \\
&:= 5 + ((5/5 + 5)^5 - (55 + 5^5)) \\
&:= (6 \times ((6+6) \times ((6+6)/6)^6)) - 6/6 - 6 \\
&:= (7 + 7)/7 + ((7 \times (7 \times 77 + 7)) + 777) \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 + 8) - 8) \\
&:= (9+9)/9 + (9 \times ((9+9)/9)^9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4602 &:= 1 + ((1+1)^{11} + (111 \times (1 + (11+11)))) \\
&:= (2 \times ((2 \times (22 + 2))^2) - 2) - 2 \\
&:= 3 + (3 \times ((3 \times ((3 - 3/3)^{3 \times 3})) - 3)) \\
&:= 4/4 + (((44 - 4/4) \times (444/4 - 4)) \\
&:= 5 + (((5/5 + 5)^5 - (55 + 5^5)) + 5/5) \\
&:= (6 \times ((6+6) \times ((6+6)/6)^6)) - 6 \\
&:= (7 - 7/7) \times (((7 - 77)/7) + 777) \\
&:= (8 + 8)/8 + (8 \times 8 \times (8 \times 8 + 8) - 8) \\
&:= ((9+9+9)/9) + (9 \times ((9+9)/9)^9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4603 &:= (((11 - 1 - 1) \times ((1+1)^{11-1} - 1)) - 1)/(1+1) \\
&:= (2 \times (((2 \times (22 + 2))^2) - 2)) - 2/2 \\
&:= 3 + ((3 \times ((3 \times ((3 - 3/3)^{3 \times 3})) - 3)) + 3/3) \\
&:= 4^4 + (((4 + 4)^4 - (4/4 + 4)) + 4^4) \\
&:= 5 + ((5 \times (5 \times (55 + 5) - 5) - ((5+5)/5)) + 5^5) \\
&:= 6/6 + ((6 \times ((6+6) \times ((6+6)/6)^6)) - 6) \\
&:= 7 + ((7 - 7/7) \times (777 - (77/7))) \\
&:= 88/8 + (8 \times 8 \times (8 \times 8 + 8) - (8 + 8)) \\
&:= ((9 - 99)/(9+9)) + 9 \times ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4604 &:= (1+1) \times (((1+1) \times ((1+1) \times (1+11)))^{1+1}) - (1+1) \\
&:= 2 \times (((2 \times (22 + 2))^2) - 2) \\
&:= (3 \times (3 \times ((3 - 3/3)^{3 \times 3})) - (3/3 + 3)) \\
&:= 4^4 + (((4 + 4)^4 - 4) + 4^4) \\
&:= 5 + ((5 \times (5 \times (55 + 5) - 5) - 5/5) + 5^5) \\
&:= 6 + (((6/6 + 6) \times 666) - ((6+6)/6)^6) \\
&:= ((7 + 7) \times (7 \times 7 \times 7 - 7 - 7)) - (7 + 7)/7 \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (8/(8+8)/8) \\
&:= ((9 - 9 \times 9)/(9+9)) + 9 \times ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4605 &:= (1+1+1) \times (((1+1+1) \times (1+1)^{11-1-1}) - 1) \\
&:= 2/2 + (2 \times (((2 \times (22 + 2))^2) - 2)) \\
&:= (3 \times (3 \times ((3 - 3/3)^{3 \times 3})) - 3) \\
&:= 4 + ((44 - 4/4) \times (444/4 - 4)) \\
&:= 5 + (5 \times (5 \times (55 + 5) - 5) + 5^5) \\
&:= (6 \times (66 \times (6+6) - 6)) - 666/6 \\
&:= ((7 + 7) \times (7 \times 7 \times 7 - 7 - 7)) - 7/7 \\
&:= 8 + (8 \times 8 \times (8 \times 8 + 8) - (88/8)) \\
&:= 9 \times ((9+9)/9)^9 - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4606 &:= (1+1) \times (((1+1) \times ((1+1) \times (1+11)))^{1+1}) - 1 \\
&:= (2 \times ((2 \times (22 + 2))^2)) - 2 \\
&:= 3/3 + ((3 \times (3 \times ((3 - 3/3)^{3 \times 3})) - 3)) \\
&:= 4^4 + (((4 + 4)^4 - (4 + 4)/4) + 4^4) \\
&:= 5 + (((5/5 + 5)^5 - (55 + 5^5)) + 5) \\
&:= (6/6 + 6) \times (666 - ((6+6)/6 + 6)) \\
&:= (7 + 7) \times (7 \times 7 \times 7 - 7 - 7) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - (8 + 8)/8 \\
&:= 9 \times ((9+9)/9)^9 - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4607 &:= ((11 - 1 - 1) \times (1+1)^{11-1-1}) - 1 \\
&:= (2 \times ((2 \times (22 + 2))^2)) - 2/2 \\
&:= (3 \times (3 \times ((3 - 3/3)^{3 \times 3})) - 3/3) \\
&:= 4^4 + (((4 + 4)^4 - 4/4) + 4^4) \\
&:= 5^5 + ((5 \times 5 + 5/5) \times ((5+5)/5 + 55)) \\
&:= (6 \times ((6+6) \times ((6+6)/6)^6)) - 6/6 \\
&:= 7/7 + ((7 + 7) \times (7 \times 7 \times 7 - 7 - 7)) \\
&:= 8 \times 8 \times (8 \times 8 + 8) - 8/8 \\
&:= 9 \times ((9+9)/9)^9 - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4608 &:= (11 - 1 - 1) \times (1+1)^{11-1-1} \\
&:= 2 \times ((2 \times (22 + 2))^2) \\
&:= 3 \times (3 \times ((3 - 3/3)^{3 \times 3})) \\
&:= 4 \times (4 \times (4 \times (4 + 4) + 4^4)) \\
&:= (5/5 + 5) \times ((5 \times 5 - 5/5) \times ((5+5)/5)^5) \\
&:= 6 \times ((6+6) \times ((6+6)/6)^6) \\
&:= (7 + 7)/7 + ((7 + 7) \times (7 \times 7 \times 7 - 7 - 7)) \\
&:= 8 \times 8 \times (8 \times 8 + 8) \\
&:= 9 \times ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4609 &:= 1 + ((11 - 1 - 1) \times (1+1)^{11-1-1}) \\
&:= 2/2 + (2 \times ((2 \times (22 + 2))^2)) \\
&:= 3/3 + (3 \times (3 \times ((3 - 3/3)^{3 \times 3}))) \\
&:= 4/4 + (((4 + 4)^4 + 4^4) + 4^4) \\
&:= 5^5 + ((5 \times 5 \times (55 + 5)) - (55/5 + 5)) \\
&:= 6/6 + (6 \times ((6+6) \times ((6+6)/6)^6)) \\
&:= 77/7 \times ((7 \times 7 \times 7 - 7/7) + 77) \\
&:= 8/8 + 8 \times 8 \times (8 \times 8 + 8) \\
&:= 9/9 + 9 \times ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4610 &:= 1 + (1 + ((11 - 1 - 1) \times (1+1)^{11-1-1})) \\
&:= 2 + (2 \times ((2 \times (22 + 2))^2)) \\
&:= 3 + ((3 \times (3 \times ((3 - 3/3)^{3 \times 3})) - 3/3) \\
&:= 4^4 + (((4 + 4)^4 + (4 + 4)/4) + 4^4) \\
&:= 5^5 + (55 \times ((5+5)/5 + 5 \times 5)) \\
&:= (6 + 6)/6 + (6 \times ((6+6) \times ((6+6)/6)^6)) \\
&:= 7 + (((7 - 7/7) \times (777 - (77/7))) + 7) \\
&:= (8 + 8)/8 + 8 \times 8 \times (8 \times 8 + 8) \\
&:= (9 + 9)/9 + 9 \times ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4611 &:= 1 + (1 + (1 + ((11 - 1 - 1) \times (1+1)^{11-1-1}))) \\
&:= 2 + ((2 \times ((2 \times (22 + 2))^2)) + 2/2) \\
&:= 3 + (3 \times (3 \times ((3 - 3/3)^{3 \times 3}))) \\
&:= 4 + (((4 + 4)^4 - 4/4) + 4^4) + 4^4 \\
&:= 5^5 + (5 \times 5 \times 55 + 555/5) \\
&:= 6 + ((6 \times (66 \times (6+6) - 6)) - 666/6) \\
&:= 7 + (((7 + 7) \times (7 \times 7 \times 7 - 7 - 7)) - ((7 + 7)/7)) \\
&:= 88/8 + (8 \times 8 \times (8 \times 8 + 8) - 8) \\
&:= ((9+9+9)/9) + 9 \times ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4612 &:= (1+1) \times (1 + (1 + (((1+1) \times ((1+1) \times (1+11)))^{1+1}))) \\
&:= 2 \times (((2 \times (22 + 2))^2) + 2) \\
&:= 3 + ((3 \times (3 \times ((3 - 3/3)^{3 \times 3})) + 3/3) \\
&:= 4 + (((4 + 4)^4 + 4^4) + 4^4) \\
&:= 5^5 + (((555 + 5)/5 + 5 \times 5 \times 55) \\
&:= (((6+6)/6) + 66)^{(6+6)/6} - 6 - 6 \\
&:= 7 + (((7 + 7) \times (7 \times 7 \times 7 - 7 - 7)) - 7/7) \\
&:= (8/(8+8)/8) + 8 \times 8 \times (8 \times 8 + 8) \\
&:= 9 \times ((9+9)/9)^9 + ((9 \times 9 - 9)/(9+9))
\end{aligned}$$

- 4613 := $((1+1) \times (1+11 \times (1+1+1)))^{1+1} - 11$
:= $2/2 + (2 \times (((2 \times (22+2))^2) + 2))$
:= $3 + (((3 \times (3 \times ((3-3/3)^{3 \times 3}))) - 3/3) + 3)$
:= $4 + (((4+4)^4 + 4^4) + 4/4)$
:= $5^5 + ((5/5+5) \times (((5-(5+5)/5)^5) + 5))$
:= $(6/6+6) \times (666-6/6-6)$
:= $7 + ((7+7) \times (7 \times 7 \times 7 - 7 - 7))$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) - (88/8)) + 8)$
:= $9 \times ((9+9)/9)^9 + ((9 \times 9+9)/(9+9))$
- 4614 := $1 + (((1+1) \times (1+11 \times (1+1+1)))^{1+1}) - 11$
:= $2 + (2 \times (((2 \times (22+2))^2) + 2))$
:= $3 + ((3 \times (3 \times ((3-3/3)^{3 \times 3}))) + 3)$
:= $4 + (((4+4)^4 + (4+4)/4) + 4^4) + 4^4$
:= $5^5 + ((5 \times 5 \times (55+5)) - (55/5))$
:= $6 + (6 \times ((6+6) \times ((6+6)/6)^6)$
:= $(7-7/7) \times (777 - (7/7+7))$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) - ((8+8)/8))$
:= $9 + (9 \times ((9+9)/9)^9 - ((9+9+9)/9))$
- 4615 := $((11-1-1) \times (1+(1+1)^{11-1-1})) - 1 - 1$
:= $2 + ((2 \times (((2 \times (22+2))^2) + 2)) + 2/2)$
:= $3 + (((3 \times (3 \times ((3-3/3)^{3 \times 3}))) + 3/3) + 3)$
:= $4 \times 44 + (4444 - (4/4+4))$
:= $5^5 + ((5 \times 5 \times (55+5)) - (5+5))$
:= $(6/6-66) \times (6/6 - (66+6))$
:= $7 + (((7+7) \times (7 \times 7 \times 7 - 7 - 7)) + ((7+7)/7))$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) - 8/8)$
:= $9 + (9 \times ((9+9)/9)^9 - ((9+9)/9))$
- 4616 := $(1+1) \times (111 + ((1+1+11)^{1+1+1}))$
:= $2 \times (((2 \times (22+2))^2) + 2) + 2$
:= $(3 \times 3 - 3/3) \times (((3 \times 3 + 3)^3 + 3)/3)$
:= $4 \times 44 + (4444 - 4)$
:= $(5/5+5)^5 - (((5 \times 5 + 5^5) + 5) + 5)$
:= $((6+6) \times (6 \times 66 - 6)) - ((6+6)/6)^6$
:= $(7/7+7) \times (7 \times (77+7) - (77/7))$
:= $8 + 8 \times 8 \times (8 \times 8 + 8)$
:= $9 + (9 \times ((9+9)/9)^9 - 9/9)$
- 4617 := $(11-1-1) \times (1+(1+1)^{11-1-1})$
:= $2/2 + (2 \times (((2 \times (22+2))^2) + 2) + 2)$
:= $3 \times ((3 \times ((3-3/3)^{3 \times 3})) + 3)$
:= $4/4 + ((4444-4) + 4 \times 44)$
:= $((5-(5+5)/5)^5) \times (5 \times 5 - (5/5+5))$
:= $66 + (666/6 \times (6 \times 6 - 6/6+6))$
:= $77/7 + ((7+7) \times (7 \times 7 \times 7 - 7 - 7))$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) + 8/8)$
:= $9 + 9 \times ((9+9)/9)^9$
- 4618 := $1 + ((11-1-1) \times (1+(1+1)^{11-1-1}))$
:= $2 + (2 \times (((2 \times (22+2))^2) + 2) + 2)$
:= $3/3 + (3 \times ((3 \times ((3-3/3)^{3 \times 3})) + 3))$
:= $4 \times 44 + (4444 - (4+4)/4)$
:= $5^5 + ((5 \times 5 \times (55+5)) - ((5+5)/5+5))$
:= $((((6+6)/6) + 66)^{(6+6)/6}) - 6$
:= $(77 \times (77/7 + 7 \times 7)) - (7+7)/7$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) + ((8+8)/8))$
:= $9 + (9 \times ((9+9)/9)^9 + 9/9)$
- 4619 := $11 + ((11-1-1) \times (1+1)^{11-1-1})$
:= $22/2 + (2 \times ((2 \times (22+2))^2))$
:= $33/3 + (3 \times (3 \times ((3-3/3)^{3 \times 3})))$
:= $4 \times 44 + (4444 - 4/4)$
:= $5^5 + ((5 \times 5 \times (55+5)) - (5/5+5))$
:= $(66 \times (((6+6)/6)^6 + 6)) - 6/6$
:= $(77 \times (77/7 + 7 \times 7)) - 7/7$
:= $88/8 + 8 \times 8 \times (8 \times 8 + 8)$
:= $99/9 + 9 \times ((9+9)/9)^9$
- 4620 := $(1+1) \times ((111-1) \times (11+(11-1)))$
:= $(2-222) \times (2/2-22)$
:= $(33/3+3) \times (333-3)$
:= $4 \times 44 + 4444$
:= $5^5 + ((5 \times 5 \times (55+5)) - 5)$
:= $66 \times (((6+6)/6)^6 + 6)$
:= $77 \times (77/7 + 7 \times 7)$
:= $((88+8)/8) + 8 \times 8 \times (8 \times 8 + 8)$
:= $(99+9)/9 + 9 \times ((9+9)/9)^9$
- 4621 := $1 + ((1+1) \times ((111-1) \times (11+(11-1))))$
:= $2 + ((2 \times ((2 \times (22+2))^2)) + 22/2)$
:= $3/3 + ((33/3+3) \times (333-3))$
:= $4/4 + (4444 + 4 \times 44)$
:= $(5/5+5)^5 - ((5 \times 5 + 5^5) + 5)$
:= $6/6 + (66 \times (((6+6)/6)^6 + 6))$
:= $7/7 + (77 \times (77/7 + 7 \times 7))$
:= $8 \times 8 \times (8 \times 8 + 8) + (88+8+8)/8$
:= $9 \times ((9+9)/9)^9 + ((99+9+9)/9)$
- 4622 := $(1+1) \times (1 + ((111-1) \times (11+(11-1))))$
:= $((2^{2+2+2} + 2) + 2)^2 - 2$
:= $3 + ((3 \times (3 \times ((3-3/3)^{3 \times 3}))) + 33/3)$
:= $4 \times 44 + (4444 + (4+4)/4)$
:= $5 + (((5-(5+5)/5)^5) \times (5 \times 5 - (5/5+5)))$
:= $(6+6)/6 + (66 \times (((6+6)/6)^6 + 6))$
:= $(7+7)/7 + (77 \times (77/7 + 7 \times 7))$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) - ((8+8)/8)) + 8)$
:= $9 + (9 \times ((9+9)/9)^9 + ((9 \times 9+9)/(9+9)))$
- 4623 := $((1+1) \times (1+11 \times (1+1+1)))^{1+1} - 1$
:= $((2^{2+2+2} + 2) + 2)^2 - 2/2$
:= $3 + ((33/3+3) \times (333-3))$
:= $((4 \times 4 \times 4 + 4)^{(4+4)/4}) - 4/4$
:= $5^5 + ((5 \times 5 \times (55+5)) - ((5+5)/5))$
:= $(66+6/6) \times (6 \times 6/(6+6) + 66)$
:= $7 + ((7/7+7) \times (7 \times (77+7) - (77/7)))$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) - 8/8) + 8)$
:= $9 + ((9 \times ((9+9)/9)^9 - ((9+9+9)/9)) + 9)$
- 4624 := $((1+1) \times (1+11 \times (1+1+1)))^{1+1}$
:= $((2^{2+2+2} + 2) + 2)^2$
:= $((((3+3)^3 - 3)/3) - 3)^{3-3/3}$
:= $(4 \times 4 \times 4 + 4)^{(4+4)/4}$
:= $5^5 + ((5 \times 5 \times (55+5)) - 5/5)$
:= $((6+6)/6) + 66)^{(6+6)/6}$
:= $(77 - ((7+7)/7 + 7))^{(7+7)/7}$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) + 8)$
:= $9 + ((9 \times ((9+9)/9)^9 - ((9+9)/9)) + 9)$
- 4625 := $1 + (((1+1) \times (1+11 \times (1+1+1)))^{1+1})$
:= $2/2 + (((2^{2+2+2} + 2) + 2)^2)$
:= $(3/3+33+3) \times (3-3/3+3)^3$
:= $4/4 + ((4 \times 4 \times 4 + 4)^{(4+4)/4})$
:= $5^5 + (5 \times 5 \times (55+5))$
:= $6 + ((66 \times (((6+6)/6)^6 + 6)) - 6/6)$
:= $(7 \times ((7 \times 7 \times (7+7)) - 7)) - ((7+7)/7)^7$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) + 8/8) + 8)$
:= $9 + ((9 \times ((9+9)/9)^9 - 9/9) + 9)$
- 4626 := $1 + (1 + (((1+1) \times (1+11 \times (1+1+1)))^{1+1}))$
:= $2 + (((2^{2+2+2} + 2) + 2)^2)$
:= $3 \times (((3 \times ((3-3/3)^{3 \times 3})) + 3) + 3)$
:= $(4/4 + 4^4) \times ((4+4)/4 + 4 \times 4)$
:= $(5/5+5)^5 - (5 \times 5 + 5^5)$
:= $6 + (66 \times (((6+6)/6)^6 + 6))$
:= $(7-7/7) \times ((777-7) + 7/7)$
:= $(8/8+8) \times (8 \times 8 \times 8 + (8+8)/8)$
:= $9 + (9 \times ((9+9)/9)^9 + 9)$
- 4627 := $1 + (1 + (1 + (((1+1) \times (1+11 \times (1+1+1)))^{1+1})))$
:= $2 + (((2^{2+2+2} + 2) + 2)^2) + 2/2$
:= $3 + (((((3+3)^3 - 3)/3) - 3)^{3-3/3})$
:= $4 + (((4 \times 4 \times 4 + 4)^{(4+4)/4}) - 4/4)$
:= $5^5 + ((5 \times 5 \times (55+5)) + ((5+5)/5))$
:= $(6/6+6) \times ((666-6) + 6/6)$
:= $7 + (77 \times (77/7 + 7 \times 7))$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) + (88/8))$
:= $9 + ((9 \times ((9+9)/9)^9 + 9/9) + 9)$

- ▶ 4628 := $11 + ((11 - 1 - 1) \times (1 + (1 + 1)^{11-1-1}))$
:= $2 + (((2^{2+2+2} + 2) + 2)^2) + 2$
:= $3 + ((3/3 + 33 + 3) \times (3 - 3/3 + 3)^3)$
:= $4 + ((4 \times 4 \times 4 + 4)^{(4+4)/4})$
:= $5 + (((5 \times 5 \times (55 + 5)) - ((5 + 5)/5)) + 5^5)$
:= $6 + ((66 \times (((6 + 6)/6)^6 + 6)) + ((6 + 6)/6))$
:= $7 + ((77 \times (77/7 + 7 \times 7)) + 7/7)$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) + ((88 + 8)/8))$
:= $9 + (9 \times ((9 + 9)/9)^9 + (99/9))$
- ▶ 4629 := $((((11 + (11 - 1))^{1+1+1}) - 1)/(1 + 1)) - 1$
:= $22 + ((2 \times ((2 \times (22 + 2))^2) - 2/2)$
:= $3 \times (((3 \times (3 + 3)) + 3)^3 - 3)/(3 + 3)$
:= $4 + (((4 \times 4 \times 4 + 4)^{(4+4)/4}) + 4/4)$
:= $5 + (((5 \times 5 \times (55 + 5)) - 5/5) + 5^5)$
:= $6 + ((66 + 6/6) \times (6 \times 6/(6 + 6) + 66))$
:= $7 + ((77 \times (77/7 + 7 \times 7)) + ((7 + 7)/7))$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) + (88 + 8 + 8)/8)$
:= $9 + (9 \times ((9 + 9)/9)^9 + (99 + 9)/9)$
- ▶ 4630 := $((((11 + (11 - 1))^{1+1+1}) - 1)/(1 + 1))$
:= $22 + (2 \times ((2 \times (22 + 2))^2))$
:= $((((3 \times (3 + 3)) + 3)^3 - 3/3)/(3 - 3/3))$
:= $4 + ((4/4 + 4^4) \times ((4 + 4)/4 + 4 \times 4))$
:= $5 + ((5 \times 5 \times (55 + 5)) + 5^5)$
:= $6 + (((6 + 6)/6) + 66)^{(6+6)/6}$
:= $((77 - 7)/7) + (77 \times (77/7 + 7 \times 7))$
:= $8 \times 8 \times (8 \times 8 + 8) + (88 + 88)/8$
:= $((99 + 99)/9) + 9 \times ((9 + 9)/9)^9$
- ▶ 4631 := $(1 + ((11 + (11 - 1))^{1+1+1}))/ (1 + 1)$
:= $22 + ((2 \times ((2 \times (22 + 2))^2) + 2/2)$
:= $(33/3)^3 + (3333 - 33)$
:= $4^4 + (((4 - 4/4) + 4) \times (4/4 + 4)^4)$
:= $5 + ((5/5 + 5)^5 - (5 \times 5 + 5^5))$
:= $66/6 + (66 \times (((6 + 6)/6)^6 + 6))$
:= $7 + ((77 - ((7 + 7)/7 + 7))^{(7+7)/7})$
:= $8 + (((8 \times 8 \times (8 \times 8 + 8) - 8/8) + 8) + 8)$
:= $(9 \times (9 - 9 \times 9 \times 9)) + (99999/9)$
- ▶ 4632 := $1 + ((1 + ((11 + (11 - 1))^{1+1+1}))/ (1 + 1))$
:= $2 + ((2 \times ((2 \times (22 + 2))^2) + 22)$
:= $3 \times (((33/3)^3 - 3) + (3 + 3)^3)$
:= $4 + (((4 \times 4 \times 4 + 4)^{(4+4)/4}) + 4)$
:= $5 + (((5/5 + 5)^5 - (5 \times 5 + 5^5)) + 5/5)$
:= $6 + ((66 \times (((6 + 6)/6)^6 + 6)) + 6)$
:= $(7 - 7/7) \times (((7 + 7)/7 - 7) + 777)$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) + 8) + 8)$
:= $9 + (((9 \times ((9 + 9)/9)^9 - ((9 + 9 + 9)/9)) + 9) + 9)$
- ▶ 4633 := $1 + (1 + ((1 + ((11 + (11 - 1))^{1+1+1}))/ (1 + 1)))$
:= $2 + (((2 \times ((2 \times (22 + 2))^2) + 22) + 2/2)$
:= $3 + (((3 \times (3 + 3)) + 3)^3 - 3/3)/(3 - 3/3)$
:= $4 + (((4 \times 4 \times 4 + 4)^{(4+4)/4}) + 4/4) + 4$
:= $5^5 + (((5^5 + 5/5)/((5 + 5)/5)) - 55)$
:= $6 + ((6/6 + 6) \times ((666 - 6) + 6/6))$
:= $7 + ((7 - 7/7) \times ((777 - 7) + 7/7))$
:= $8 + (((8 \times 8 \times (8 \times 8 + 8) + 8/8) + 8) + 8)$
:= $((99/9) \times ((9 + 9)/9)^9) - 999$
- ▶ 4634 := $11 + (((1 + 1) \times (1 + 11 \times (1 + 1 + 1)))^{1+1}) - 1$
:= $22 + (2 \times ((2 \times (22 + 2))^2) + 2)$
:= $(33/3 + 3) \times ((333 - 3) + 3/3)$
:= $4 + (((4/4 + 4^4) \times ((4 + 4)/4 + 4 \times 4)) + 4)$
:= $5 + (((5 \times 5 \times (55 + 5)) - 5/5) + 5^5) + 5$
:= $(6/6 + 6) \times (((6 + 6)/6 - 6) + 666)$
:= $7 + ((77 \times (77/7 + 7 \times 7)) + 7)$
:= $8 + ((8/8 + 8) \times (8 \times 8 \times 8 + (8 + 8)/8))$
:= $9 + (((9 \times ((9 + 9)/9)^9 - 9/9) + 9) + 9)$
- ▶ 4635 := $11 + (((1 + 1) \times (1 + 11 \times (1 + 1 + 1)))^{1+1})$
:= $22/2 + (((2^{2+2+2} + 2) + 2)^2)$
:= $3 \times (3 \times (((3 - 3/3)^{3 \times 3} + 3))$
:= $4^4 + (4444 - (4^4 + 4)/4)$
:= $5 + (((5 \times 5 \times (55 + 5)) + 5^5) + 5)$
:= $(6 \times 66 \times (6 + 6)) - (666/6 + 6)$
:= $7 \times 77 + ((7/7 + 7)^{77/7-7})$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) + (88/8)) + 8)$
:= $9 + ((9 \times ((9 + 9)/9)^9 + 9) + 9)$
- ▶ 4636 := $(1 + 11^{1+1}) \times (1 + (111/(1 + 1 + 1)))$
:= $2 + ((2 \times ((2 \times (22 + 2))^2) + 2) + 22)$
:= $3/3 + (3 \times (3 \times (((3 - 3/3)^{3 \times 3} + 3)))$
:= $4444 + (4 \times (44 + 4))$
:= $(5/5 + 5)^5 - ((5^5 + 5 + 5) + 5)$
:= $6 + (((6 + 6)/6) + 66)^{(6+6)/6} + 6$
:= $(77 - 7/7) \times ((77 + 7)/7 + 7 \times 7)$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) + (88 + 8)/8)) + 8$
:= $9 + (((9 \times ((9 + 9)/9)^9 + 9/9) + 9) + 9)$
- ▶ 4637 := $1 + ((1 + 11^{1+1}) \times (1 + (111/(1 + 1 + 1))))$
:= $2 + (((2^{2+2+2} + 2) + 2)^2) + 22/2$
:= $(33/3)^3 + (3333 - 3^3)$
:= $4/4 + (4444 + (4 \times (44 + 4)))$
:= $5^5 + ((5 \times 5 \times (55 + 5)) + ((55 + 5)/5))$
:= $6 + ((66 \times (((6 + 6)/6)^6 + 6)) + (66/6))$
:= $7 \times (7 \times 7 \times 7 + 7) + ((7 + 7 + 7)/7)^7$
:= $((8 \times 8 - 8/8) \times (88/8 + 8 \times 8)) - 88$
:= $9 + ((9 \times ((9 + 9)/9)^9 + (99/9)) + 9)$
- ▶ 4638 := $(1 + 1) \times ((111 \times (11 + (11 - 1))) - (1 + 11))$
:= $22 + (2 \times (((2 \times (22 + 2))^2) + 2) + 2)$
:= $3 + (3 \times (3 \times (((3 - 3/3)^{3 \times 3} + 3)))$
:= $4^4 + (((4 - 4^4) + 4)/4) + 4444$
:= $5^5 + ((55 \times 55 + 5/5)/((5 + 5)/5))$
:= $66 + (66 \times 66 + 6 \times 6 \times 6)$
:= $(7 - 7/7) \times ((777 - (77/7)) + 7)$
:= $8 + (8 \times 8 \times (8 \times 8 + 8) + (88 + 88)/8)$
:= $999/9 + (9 \times (((9 + 9)/9)^9) - 9)$
- ▶ 4639 := $((11 + (11 - 1)) \times ((1 + 1) \times 111 - 1)) - 1 - 1$
:= $((2/2 - 22) \times (2/2 - 222)) - 2$
:= $3 + ((3 \times (3 \times (((3 - 3/3)^{3 \times 3} + 3))) + 3/3)$
:= $((4 + 4) \times (4 \times 4^4 - 444)) - 4/4$
:= $(5/5 + 5)^5 - (((55 + 5)/5) + 5^5)$
:= $6 + (((6/6 + 6) \times ((666 - 6) + 6/6)) + 6)$
:= $7 + ((7 - 7/7) \times (((7 + 7)/7 - 7) + 777))$
:= $8 + (((8 \times 8 \times (8 \times 8 + 8) - 8/8) + 8) + 8) + 8$
:= $9 + (((99 + 99)/9) + 9 \times ((9 + 9)/9)^9)$
- ▶ 4640 := $(1 + 1) \times ((11 - 1) \times (111 + 11^{1+1}))$
:= $2 \times (((2 \times (22 + 2))^2) + 2^{2+2})$
:= $(3 \times ((33/3)^3 + (3 + 3)^3)) - 3/3$
:= $(4 + 4) \times (4 \times 4^4 - 444)$
:= $((5 + 5)/5)^5 \times (5 \times (5 \times 5 + 5) - 5)$
:= $(6 \times 66 \times (6 + 6)) - (666 + 6)/6$
:= $(7/7 + 7) \times (7 \times (77 + 7) - (7/7 + 7))$
:= $8 + (((8 \times 8 \times (8 \times 8 + 8) + 8) + 8) + 8)$
:= $(99/9 + 9) \times (9 \times (9 + 9 + 9) - (99/9))$
- ▶ 4641 := $(11 + (11 - 1)) \times ((1 + 1) \times 111 - 1)$
:= $(2/2 - 22) \times (2/2 - 222)$
:= $3 \times ((33/3)^3 + (3 + 3)^3)$
:= $4/4 + ((4 + 4) \times (4 \times 4^4 - 444))$
:= $(5/5 + 5)^5 - (5^5 + 5 + 5)$
:= $(6 \times 66 \times (6 + 6)) - 666/6$
:= $(7 - 7/7 + 7) \times (7 \times 7 \times 7 + 7 + 7)$
:= $8 + (((8 \times 8 \times (8 \times 8 + 8) + 8/8) + 8) + 8) + 8$
:= $((9 - 9/9) + 9) \times (999/9 + 9 \times (9 + 9))$
- ▶ 4642 := $(1 + 1) \times (11 \times ((1 + 1) \times 111 - 11))$
:= $22 \times (222 - 22/2)$
:= $3/3 + (3 \times ((33/3)^3 + (3 + 3)^3))$
:= $4 \times 4 + ((4/4 + 4^4) \times ((4 + 4)/4 + 4 \times 4))$
:= $5/5 + ((5/5 + 5)^5 - (5^5 + 5 + 5))$
:= $((6 - 666)/6) + (6 \times 66 \times (6 + 6))$
:= $(7 \times ((7 \times 7 \times (7 + 7)) - 7)) - 777/7$
:= $8 + (((8/8 + 8) \times (8 \times 8 \times 8 + (8 + 8)/8)) + 8)$
:= $99/9 \times (((9 + 9)/9)^9) - 99 + 9)$

- ▶ 4643 := $1 + ((1 + 1) \times (11 \times ((1 + 1) \times 111 - 11)))$
:= $2 + ((2/2 - 22) \times (2/2 - 222))$
:= $3 + ((3 \times ((33/3)^3 + (3 + 3)^3)) - 3/3)$
:= $4 + (((4 + 4) \times (4 \times 4^4 - 444)) - 4/4)$
:= $5 \times 55 + (((5 + 5)/5 + 5) \times (5^5 - 5)/5)$
:= $((6 + 6) \times (6 \times 66 - 6)) - (6 \times 6 + 6/6)$
:= $((7 - 7/7) \times (777 - ((7 + 7)/7))) - 7$
:= $8 + (((8 \times 8 \times (8 \times 8 + 8) + (88/8)) + 8) + 8)$
:= $9 + (((9 \times ((9 + 9)/9)^9 - 9/9) + 9) + 9) + 9)$
- ▶ 4644 := $(1 + 1) \times (1 + (11 \times ((1 + 1) \times 111 - 11)))$
:= $2 + (22 \times (222 - 22/2))$
:= $3 + (3 \times ((33/3)^3 + (3 + 3)^3))$
:= $4 + ((4 + 4) \times (4 \times 4^4 - 444))$
:= $(5/5 + 5)^5 - (((5 + 5)/5 + 5^5) + 5)$
:= $6 \times (((6 + 6) \times ((6 + 6)/6)^6) + 6)$
:= $(7 - 7/7) \times (777 - ((7 + 7 + 7)/7))$
:= $(8/8 + 8) \times ((8/((8 + 8)/8)) + 8 \times 8 \times 8)$
:= $9 + (((9 \times ((9 + 9)/9)^9 + 9) + 9) + 9)$
- ▶ 4645 := $1 + ((1 + 1) \times (1 + (11 \times ((1 + 1) \times 111 - 11))))$
:= $2 + (((2/2 - 22) \times (2/2 - 222)) + 2)$
:= $((33/3 + 3) \times (333 - 3/3)) - 3$
:= $4 + (((4 + 4) \times (4 \times 4^4 - 444)) + 4/4)$
:= $5^5 + ((5 \times (5 \times (55 + 5) + 5)) - 5)$
:= $6/6 + (6 \times (((6 + 6) \times ((6 + 6)/6)^6) + 6))$
:= $7 + ((7 - 7/7) \times ((777 - (77/7)) + 7))$
:= $8 \times 8 \times (8 \times 8 + 8) + 888/(8 + 8 + 8)$
:= $9 + (((9 \times ((9 + 9)/9)^9 + 9/9) + 9) + 9) + 9)$
- ▶ 4646 := $(1 + 1) \times (1 + (1 + (11 \times ((1 + 1) \times 111 - 11))))$
:= $22 + (((2^{2+2+2} + 2) + 2)^2)$
:= $33/3 + (3 \times (3 \times (((3 - 3/3)^{3 \times 3}) + 3)))$
:= $(4 + 4)^4 + ((4/4 + 4) \times (444 - 4)/4)$
:= $(5/5 + 5)^5 - (5^5 + 5)$
:= $6 + ((6 \times 66 \times (6 + 6)) - (666 + 6)/6)$
:= $((7 + 7)/7) \times (7 \times 7 \times 7 \times 7 - (7/7 + 77))$
:= $8 + ((8 \times 8 \times (8 \times 8 + 8) + (88 + 88)/8) + 8)$
:= $9 + (((9 \times ((9 + 9)/9)^9 + (99/9)) + 9) + 9)$
- ▶ 4647 := $(1 + 1 + 1 + 11) \times ((1 + 1 + 1) \times 111 - 1) - 1$
:= $22 + (((2^{2+2+2} + 2) + 2)^2) + 2/2$
:= $3 + ((3 \times ((33/3)^3 + (3 + 3)^3)) + 3)$
:= $((4 + 4) \times ((4/4 + 4)^4 - 44)) - 4/4$
:= $5/5 + ((5/5 + 5)^5 - (5^5 + 5))$
:= $6 + ((6 \times 66 \times (6 + 6)) - 666/6)$
:= $((7 - 7/7) \times 777) - (7/7 + 7 + 7)$
:= $888/8 + ((8/8 + 8) \times (8 \times 8 \times 8 - 8))$
:= $9 + ((9 \times (((9 + 9)/9)^9 - 9)) + 999/9)$
- ▶ 4648 := $(1 + (1 + 1 + 11)) \times ((1 + 1 + 1) \times 111 - 1)$
:= $2 \times (((2 \times (22 + 2))^2) - 2) + 22$
:= $(33/3 + 3) \times (333 - 3/3)$
:= $(4 + 4) \times ((4/4 + 4)^4 - 44)$
:= $(5 + 5)/5 + ((5/5 + 5)^5 - (5^5 + 5))$
:= $(6/6 + 6) \times (666 - ((6 + 6)/6))$
:= $(7 + 7) \times (7 \times 7 \times 7 - (77/7))$
:= $(8 \times 8 - 8) \times ((88/8 + 8 \times 8) + 8)$
:= $9 \times ((9 + 9)/9)^9 + ((9 \times 9 \times 9 - 9)/(9 + 9))$
- ▶ 4649 := $1 + (1 + 1 + 1 + 11) \times ((1 + 1 + 1) \times 111 - 1)$
:= $2/2 + (2 \times (((2 \times (22 + 2))^2) - 2) + 22)$
:= $3/3 + ((33/3 + 3) \times (333 - 3/3))$
:= $4/4 + ((4 + 4) \times ((4/4 + 4)^4 - 44))$
:= $(5/5 + 5)^5 - ((5 + 5)/5 + 5^5)$
:= $((6/6 + 6) \times (666 - 6/6)) - 6$
:= $((7 - 7/7) \times (777 - 7/7)) - 7$
:= $8/8 + ((8 \times 8 - 8) \times ((88/8 + 8 \times 8) + 8))$
:= $9 \times ((9 + 9)/9)^9 + ((9 \times 9 \times 9 + 9)/(9 + 9))$
- ▶ 4650 := $(11 - 1) \times (1 + ((1 + 1) \times (111 + 11^{1+1})))$
:= $(2 \times (((2 \times (22 + 2))^2) + 22)) - 2$
:= $3 \times (((33/3)^3 + (3 + 3)^3) + 3)$
:= $(44 + 4^4)/4 \times (4^4 - 4 - 4)/4$
:= $5^5 + (5 \times (5 \times (55 + 5) + 5))$
:= $((6/6 + 6) \times 666) - 6 - 6$
:= $(7 - 7/7) \times (777 - ((7 + 7)/7))$
:= $(8 \times 8 - ((8 + 8)/8)) \times (88/8 + 8 \times 8)$
:= $9 + ((99/((9 + 9 + 9)/9)) + 9 \times ((9 + 9)/9)^9)$
- ▶ 4651 := $((1 + 1)^{1+11}) + ((1111 - 1)/(1 + 1))$
:= $(222 \times (22 - 2/2)) - 22/2$
:= $3 + ((33/3 + 3) \times (333 - 3/3))$
:= $444 + (444/4 + (4 + 4)^4)$
:= $(5/5 + 5)^5 - 5^5$
:= $((6/6 + 6) \times 666) - 66/6$
:= $((7 - 7/7) \times 777) - 77/7$
:= $8 \times 8 \times 8 \times 8 + (8888 - 8)/(8 + 8)$
:= $9 + ((99/9) \times (((9 + 9)/9)^9 - 99) + 9)$
- ▶ 4652 := $((1 + 1)^{1+11}) + ((1 + 1111)/(1 + 1))$
:= $2 \times (((2 \times (22 + 2))^2) + 22)$
:= $(33 \times ((3 \times (33 + 3)) + 33)) - 3/3$
:= $4 + ((4 + 4) \times ((4/4 + 4)^4 - 44))$
:= $5/5 + ((5/5 + 5)^5 - 5^5)$
:= $(6 - 66)/6 + ((6/6 + 6) \times 666)$
:= $((7 - 77)/7) + ((7 - 7/7) \times 777)$
:= $8 \times 8 \times (8 \times 8 + 8) + (88/((8 + 8)/8))$
:= $(99 \times (((99/9 + 9 + 9) + 9) + 9)) - 9/9$
- ▶ 4653 := $11 \times (1 + ((1 + 1) \times ((1 + 1) \times 111 - 11)))$
:= $2/2 + (2 \times (((2 \times (22 + 2))^2) + 22))$
:= $33 \times ((3 \times (33 + 3)) + 33)$
:= $(4/4 + 4)^4 + ((4 \times 4 \times (4^4 - 4)) - 4)$
:= $(5 + 5)/5 + ((5/5 + 5)^5 - 5^5)$
:= $6 + (((6 \times 66 \times (6 + 6)) - 666/6) + 6)$
:= $77/7 \times ((77 \times 77 - 7)/(7 + 7))$
:= $88/8 \times (8 \times 8 \times 8 - (8/8 + 88))$
:= $99 \times (((99/9 + 9 + 9) + 9) + 9)$
- ▶ 4654 := $1 + (11 \times (1 + ((1 + 1) \times ((1 + 1) \times 111 - 11))))$
:= $2 + (2 \times (((2 \times (22 + 2))^2) + 22))$
:= $3/3 + (33 \times ((3 \times (33 + 3)) + 33))$
:= $4 + ((44 + 4^4)/4 \times (4^4 - 4 - 4)/4)$
:= $5 + ((5/5 + 5)^5 - ((5 + 5)/5 + 5^5))$
:= $6 + ((6/6 + 6) \times (666 - (6 + 6)/6))$
:= $((7 - 7/7) \times 777) - (7/7 + 7)$
:= $8 \times 8 + ((8/8 + 8) \times (8 \times 8 \times 8 - ((8 + 8)/8)))$
:= $9/9 + (99 \times (((99/9 + 9 + 9) + 9) + 9))$
- ▶ 4655 := $(1 + (11 \times (1 + 11))) \times (1 + (1 + 11 \times (1 + 1 + 1)))$
:= $2 + ((2 \times (((2 \times (22 + 2))^2) + 22)) + 2/2)$
:= $(33/3)^3 + (3333 - 3 \times 3)$
:= $4^4 + 4444 - (44 + 4/4)$
:= $5 + ((5 \times (5 \times (55 + 5) + 5)) + 5^5)$
:= $(6/6 + 6) \times (666 - 6/6)$
:= $7 \times (7 \times (77 + 7) + 77)$
:= $888/8 + (8 \times (8 \times (8 \times 8 + 8) - 8))$
:= $(9/9 + 9 + 9) \times (9 \times (9 + 9 + 9) + ((9 + 9)/9))$
- ▶ 4656 := $(1 + 1) \times ((111 \times (11 + (11 - 1))) - (1 + 1 + 1))$
:= $2 \times (((2 \times (22 + 2))^2) + 22) + 2$
:= $3 + (33 \times ((3 \times (33 + 3)) + 33))$
:= $4^4 + (4444 - 44)$
:= $5 + ((5/5 + 5)^5 - 5^5)$
:= $((6/6 + 6) \times 666) - 6$
:= $(7 - 7/7) \times (777 - 7/7)$
:= $(8 \times (8 \times (8 \times 8 + 8) + 8)) - 8 - 8$
:= $9 + (((9 \times (((9 + 9)/9)^9) - 9)) + 999/9) + 9)$
- ▶ 4657 := $((1 + 1)^{1+11}) + ((11 + 1111)/(1 + 1))$
:= $2/2 + (2 \times (((2 \times (22 + 2))^2) + 22) + 2)$
:= $3 + ((33 \times ((3 \times (33 + 3)) + 33)) + 3/3)$
:= $(4/4 + 4)^4 + (4 \times 4 \times (4^4 - 4))$
:= $5 + (((5/5 + 5)^5 - 5^5) + 5/5)$
:= $6/6 + (((6/6 + 6) \times 666) - 6)$
:= $7 + ((7 - 7/7) \times (777 - ((7 + 7)/7)))$
:= $8/8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) - (8 + 8))$
:= $9 \times ((9 + 9)/9)^9 + ((9 \times 99 - 9)/(9 + 9))$

$$\begin{aligned}
\blacktriangleright 4658 &:= (1+1) \times ((111 \times (11 + (11 - 1))) - (1+1)) \\
&:= (222 \times (22 - 2/2)) - 2 - 2 \\
&:= (33/3)^3 + (3333 - (3+3)) \\
&:= (444/4 \times (44 - (4+4)/4)) - 4 \\
&:= 5 + (((5/5 + 5)^5 - 5^5) + ((5+5)/5)) \\
&:= (6+6)/6 + (((6/6+6) \times 666) - 6) \\
&:= 7 + (((7-7/7) \times 777) - (77/7)) \\
&:= 8 + ((8 \times 8 - ((8+8)/8)) \times (88/8 + 8 \times 8)) \\
&:= 9 \times ((9+9)/9)^9 + ((9 \times 99 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4659 &:= (1+1+1) \times ((111 \times (1 + (1+1+11))) - 1) \\
&:= (222 \times (22 - 2/2)) - 2/2 - 2 \\
&:= (333 \times (33/3 + 3)) - 3 \\
&:= 4 + (4444 - (44 + 4/4) + 4^4) \\
&:= 5 + (((5/5 + 5)^5 - ((5+5)/5 + 5^5)) + 5) \\
&:= ((6/6+6) \times 666) - 6 \times 6/(6+6) \\
&:= ((7-7/7) \times 777) - (7+7+7)/7 \\
&:= (8 \times (8 \times (8 \times 8 + 8) + 8)) - (88 + 8 + 8)/8 \\
&:= 9 \times (((9+9)/9)^9 + 9 + 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4660 &:= (1+1) \times ((111 \times (11 + (11 - 1))) - 1) \\
&:= (222 \times (22 - 2/2)) - 2 \\
&:= 3/3 + ((333 \times (33/3 + 3)) - 3) \\
&:= 4 + ((4444 - 44) + 4^4) \\
&:= 5^5 + (5 \times (5^5 - 55)/(5+5)) \\
&:= ((6/6+6) \times 666) - (6+6)/6 \\
&:= ((7-7/7) \times 777) - (7+7)/7 \\
&:= (8 \times (8 \times (8 \times 8 + 8) + 8)) - (88 + 8)/8 \\
&:= (99/9 + 9) \times (9 \times (9+9+9) - (9/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4661 &:= ((1+1) \times (111 \times (11 + (11 - 1)))) - 1 \\
&:= (222 \times (22 - 2/2)) - 2/2 \\
&:= (33/3)^3 + (3333 - 3) \\
&:= 4 + ((4 \times 4 \times (4^4 - 4)) + (4/4 + 4)^4) \\
&:= 5 + (((5/5 + 5)^5 - 5^5) + 5) \\
&:= ((6/6+6) \times 666) - 6/6 \\
&:= ((7-7/7) \times 777) - 7/7 \\
&:= (8 \times (8 \times (8 \times 8 + 8) + 8)) - 88/8 \\
&:= 9 \times (((9+9)/9)^9 + 9) - ((9/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4662 &:= (1+1) \times (111 \times (11 + (11 - 1))) \\
&:= 222 \times (22 - 2/2) \\
&:= 333 \times (33/3 + 3) \\
&:= 444/4 \times (44 - (4+4)/4) \\
&:= 55/5 + ((5/5 + 5)^5 - 5^5) \\
&:= (6/6+6) \times 666 \\
&:= (7-7/7) \times 777 \\
&:= (8/8+8) \times ((8 \times 8 \times 8 - ((8+8)/8)) + 8) \\
&:= 9 \times (((9+9)/9)^9 + 9) - (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4663 &:= 1 + ((1+1) \times (111 \times (11 + (11 - 1)))) \\
&:= 2/2 + (222 \times (22 - 2/2)) \\
&:= 3/3 + (333 \times (33/3 + 3)) \\
&:= (4+4) \times 444 + 4444/4 \\
&:= (5/5 + 5)^5 + (((55+5)/5) - 5^5) \\
&:= 6/6 + ((6/6+6) \times 666) \\
&:= 7/7 + ((7-7/7) \times 777) \\
&:= (8 \times (8 \times (8 \times 8 + 8) + 8)) - (8/8+8) \\
&:= 9/9 + (9 \times (((9+9)/9)^9 + 9) - (9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4664 &:= (1+1) \times (1 + (111 \times (11 + (11 - 1)))) \\
&:= 2 + (222 \times (22 - 2/2)) \\
&:= (33/3)^3 + 3333 \\
&:= 44 \times ((444 - 4)/4 - 4) \\
&:= (5 - 5/5) \times (5555/5 + 55) \\
&:= (6+6)/6 + ((6/6+6) \times 666) \\
&:= (7+7)/7 + ((7-7/7) \times 777) \\
&:= 88 \times (8 \times 8 - 88/8) \\
&:= 99/9 \times (((9+9) \times (9+9) + 99) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4665 &:= 1 + ((1+1) \times (1 + (111 \times (11 + (11 - 1)))))) \\
&:= 2 + ((222 \times (22 - 2/2)) + 2/2) \\
&:= 3 + (333 \times (33/3 + 3)) \\
&:= 4/4 + (44 \times ((444 - 4)/4 - 4)) \\
&:= 5^5 + (5 \times ((5^5 + 5)/(5+5) - 5)) \\
&:= (6 \times 6/(6+6)) + ((6/6+6) \times 666) \\
&:= (7+7+7)/7 + ((7-7/7) \times 777) \\
&:= 8/8 + (88 \times (8 \times 8 - 88/8)) \\
&:= 9 \times ((9+9)/9)^9 + (((((9+9)/9)^9) + 9/9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4666 &:= (1+1) \times (111 + ((1+1) \times 1111)) \\
&:= 222 + (2 \times 2222) \\
&:= 3 + ((333 \times (33/3 + 3)) + 3/3) \\
&:= 4 + (444/4 \times (44 - (4+4)/4)) \\
&:= 5 + (((5/5 + 5)^5 - 5^5) + 5) + 5) \\
&:= 6 + (((6/6+6) \times 666) - ((6+6)/6)) \\
&:= 77/7 + (7 \times (7 \times (77+7) + 77)) \\
&:= (8+8)/8 + (88 \times (8 \times 8 - 88/8)) \\
&:= 9 + (((9 \times 99 - 9)/(9+9)) + 9 \times ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4667 &:= 1 + ((1+1) \times (111 + ((1+1) \times 1111))) \\
&:= 2/2 + ((2 \times 2222) + 222) \\
&:= 3 + ((33/3)^3 + 3333) \\
&:= 4 + ((4+4) \times 444 + 4444/4) \\
&:= 5 + (((5/5 + 5)^5 - 5^5) + (55/5)) \\
&:= 6 + (((6/6+6) \times 666) - 6/6) \\
&:= 7 + (((7-7/7) \times 777) - ((7+7)/7)) \\
&:= 88/8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) - (8+8)) \\
&:= 9 \times (((9+9)/9)^9 + 9) - ((99+99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4668 &:= (1+1) \times (1 + (111 + ((1+1) \times 1111))) \\
&:= 2 + ((2 \times 2222) + 222) \\
&:= 3 + ((333 \times (33/3 + 3)) + 3) \\
&:= 4 + (44 \times ((444 - 4)/4 - 4)) \\
&:= 5 + (((5/5 + 5)^5 - 5^5) + ((55+5)/5)) \\
&:= 6 + ((6/6+6) \times 666) \\
&:= (7-7/7) \times (777 + 7/7) \\
&:= (8 \times (8 \times (8 \times 8 + 8) + 8)) - (8/((8+8)/8)) \\
&:= 9 \times (((9+9)/9)^9 + 9) - ((99+9)/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4669 &:= 1 + ((1+1) \times (1 + (111 + ((1+1) \times 1111)))) \\
&:= 2 + (((2 \times 2222) + 222) + 2/2) \\
&:= (((3/3 + 3)^3) \times (((3+3)^3 + 3)/3)) - 3 \\
&:= 444 + ((4^4 + 4)/4)^{(4+4)/4} \\
&:= (55 \times (5 \times 5 + 55 + 5)) - (5/5 + 5) \\
&:= (6/6+6) \times (666 + 6/6) \\
&:= 7 + ((7-7/7) \times 777) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) - (88/8)) \\
&:= (99/9 + 9 + 9) \times (9 \times (9+9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4670 &:= (1+1) \times (111 + ((1+1) \times (1 + 1111))) \\
&:= 222 + 2 \times (2222 + 2) \\
&:= 3 + (((33/3)^3 + 3333) + 3) \\
&:= 4 + ((444/4 \times (44 - (4+4)/4)) + 4) \\
&:= (55 \times (5 \times 5 + 55 + 5)) - 5 \\
&:= 6 + (((6/6+6) \times 666) + ((6+6)/6)) \\
&:= 7 + (((7-7/7) \times 777) + 7/7) \\
&:= (8 \times (8 \times (8 \times 8 + 8) + 8)) - (8+8)/8 \\
&:= 9 \times (((9+9)/9)^9 + 9) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4671 &:= 1 + ((1+1) \times (111 + ((1+1) \times (1 + 1111)))) \\
&:= 2/2 + (2 \times (2222 + 2) + 222) \\
&:= 3 \times (3 \times ((3 \times (3+3) \times 3^3) + 33)) \\
&:= (4 \times (4 \times ((4 \times (4+4) + 4^4) + 4))) - 4/4 \\
&:= 5 \times 5 + ((5/5 + 5)^5 - (5^5 + 5)) \\
&:= 6 + (((6/6+6) \times 666) + (6 \times 6/(6+6))) \\
&:= 7 + (((7-7/7) \times 777) + ((7+7)/7)) \\
&:= (8 \times (8 \times (8 \times 8 + 8) + 8)) - 8/8 \\
&:= 9 \times (((9+9)/9)^9 + 9) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4672 &:= ((1+1)^{1+11}) + (((1+1) \times (1+11))^{1+1}) \\
&:= 2 \times ((2 \times 22)^2 + (22 - 2)^2) \\
&:= ((3/3 + 3)^3) \times (((3+3)^3 + 3)/3) \\
&:= 4 \times (4 \times ((4 \times (4+4) + 4^4) + 4)) \\
&:= 5 + (((5/5 + 5)^5 - 5^5) + (55/5)) + 5) \\
&:= ((6+6)/6)^6 \times (66 + 6/6 + 6) \\
&:= ((77-7)/7) + ((7-7/7) \times 777) \\
&:= 8 \times (8 \times (8 \times 8 + 8) + 8) \\
&:= 9/9 + (9 \times (((9+9)/9)^9 + 9) - (9+9))
\end{aligned}$$

- ▶ 4673 := $11 + ((1 + 1) \times (111 \times (11 + (11 - 1))))$
:= $22/2 + (222 \times (22 - 2/2))$
:= $3 \times 3 + ((33/3)^3 + 3333)$
:= $4/4 + (4 \times (4 \times ((4 \times (4 + 4) + 4^4) + 4)))$
:= $(55 \times (5 \times 5 + 55 + 5)) - (5 + 5)/5$
:= $66/6 + ((6/6 + 6) \times 666)$
:= $77/7 + ((7 - 7/7) \times 777)$
:= $8/8 + (8 \times (8 \times (8 \times 8 + 8) + 8))$
:= $(9 + 9)/9 + (9 \times (((9 + 9)/9)^9 + 9) - (9 + 9))$
- ▶ 4674 := $1 + (11 + ((1 + 1) \times (111 \times (11 + (11 - 1)))))$
:= $2 + (2^{2 \times (2+2+2)} + ((22 + 2)^2))$
:= $3 + ((333 \times (33/3 + 3)) + 3 \times 3)$
:= $(4 + 4)/4 + (4 \times (4 \times ((4 \times (4 + 4) + 4^4) + 4)))$
:= $(55 \times (5 \times 5 + 55 + 5)) - 5/5$
:= $((6 + 6) \times (6 \times 66 - 6)) - 6$
:= $(7 - 7/7) \times (((7 + 7)/7) + 777)$
:= $(8 + 8)/8 + (8 \times (8 \times (8 \times 8 + 8) + 8))$
:= $(9/9 + 9 \times 9) \times (((((9 + 9)/9)^9) + 9/9)/9)$
- ▶ 4675 := $11 + ((1 + 1) \times (1 + (111 \times (11 + (11 - 1)))))$
:= $2 + ((222 \times (22 - 2/2)) + 22/2)$
:= $3 + (((3/3 + 3)^3) \times (((3 + 3)^3 + 3)/3))$
:= $((4 - 4/4)^4 + 4) \times (44/4 + 44)$
:= $55 \times (5 \times 5 + 55 + 5)$
:= $6 + ((6/6 + 6) \times (666 + 6/6))$
:= $7 + ((7 - 7/7) \times (777 + 7/7))$
:= $88/8 + (88 \times (8 \times 8 - 88/8))$
:= $9999/9 + ((9 + 9) \times (99 + 99))$
- ▶ 4676 := $(1 + (1 + 1 + 11)) \times (1 + (1 + 1 + 1) \times 111)$
:= $2 \times ((2 \times 22 + 2)^2 + 222)$
:= $(33/3 + 3) \times (333 + 3/3)$
:= $4^4 \times (4 \times 4 + 4) - 444$
:= $5 \times 5 + ((5/5 + 5)^5 - 5^5)$
:= $(6/6 + 6) \times (666 + (6 + 6)/6)$
:= $7 + (((7 - 7/7) \times 777) + 7)$
:= $(8 / ((8 + 8)/8)) + (8 \times (8 \times (8 \times 8 + 8) + 8))$
:= $9 \times (((9 + 9)/9)^9 + 9) - (99 + 9 + 9)/9$
- ▶ 4677 := $1 + (1 + 1 + 1 + 11) \times (1 + (1 + 1 + 1) \times 111)$
:= $2/2 + (2 \times ((2 \times 22 + 2)^2 + 222))$
:= $((3^3 - 3) \times (33 \times (3 + 3) - 3)) - 3$
:= $(4 + 4)^4 + ((4/4 + 4)^4 - 44)$
:= $5 \times 5 + (((5/5 + 5)^5 - 5^5) + 5/5)$
:= $((6 + 6) \times (6 \times 66 - 6)) - 6 \times 6 / (6 + 6)$
:= $7 + (((7 - 7/7) \times 777) + 7/7) + 7$
:= $8 + (((8 \times (8 \times (8 \times 8 + 8) + 8)) - (88/8)) + 8)$
:= $9 \times (((9 + 9)/9)^9 + 9) - (99 + 9)/9$
- ▶ 4678 := $1 + (1 + (1 + 1 + 1 + 11) \times (1 + (1 + 1 + 1) \times 111))$
:= $2 + (2 \times ((2 \times 22 + 2)^2 + 222))$
:= $3 + (((3/3 + 3)^3) \times (((3 + 3)^3 + 3)/3)) + 3$
:= $4 \times 4 + (444/4 \times (44 - (4 + 4)/4))$
:= $5^5 + (((5/5 + 5)^5 - (55/5))/5)$
:= $((6 + 6) \times (6 \times 66 - 6)) - (6 + 6)/6$
:= $7 + (((7 - 7/7) \times 777) + ((7 + 7)/7)) + 7$
:= $8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) - ((8 + 8)/8))$
:= $9 \times (((9 + 9)/9)^9 + 9) - 99/9$
- ▶ 4679 := $((1 + 1 + 1) \times ((1 + 1 + 11) \times (11^{1+1} - 1))) - 1$
:= $((2 - 22) \times (22 - 2^{2 \times (2+2)})) - 2/2$
:= $3 + ((33/3 + 3) \times (333 + 3/3))$
:= $((4^4 + 4) \times ((4 + 4)/4 + 4 \times 4)) - 4/4$
:= $5 + ((55 \times (5 \times 5 + 55 + 5)) - 5/5)$
:= $((6 + 6) \times (6 \times 66 - 6)) - 6/6$
:= $7 + (((7 - 7/7) \times 777) + ((77 - 7)/7))$
:= $8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) - 8/8)$
:= $9 \times (((9 + 9)/9)^9 + 9) - 9/9 - 9$
- ▶ 4680 := $(1 + 1 + 1) \times ((1 + 1 + 11) \times (11^{1+1} - 1))$
:= $(2 - 22) \times (22 - 2^{2 \times (2+2)})$
:= $(3^3 - 3) \times (33 \times (3 + 3) - 3)$
:= $(4^4 + 4) \times ((4 + 4)/4 + 4 \times 4)$
:= $5 + (55 \times (5 \times 5 + 55 + 5))$
:= $(6 + 6) \times (6 \times 66 - 6)$
:= $(7/7 + 77) \times (77/7 + 7 \times 7)$
:= $8 + (8 \times (8 \times (8 \times 8 + 8) + 8))$
:= $9 \times (((9 + 9)/9)^9 + 9) - 9$
- ▶ 4681 := $1 + ((1 + 1 + 1) \times ((1 + 1 + 11) \times (11^{1+1} - 1)))$
:= $((22 - 2/2) \times (222 + 2/2)) - 2$
:= $3/3 + ((3^3 - 3) \times (33 \times (3 + 3) - 3))$
:= $4 + (((4/4 + 4)^4 - 44) + (4 + 4)^4)$
:= $5 + (((5/5 + 5)^5 - 5^5) + 5 \times 5)$
:= $6/6 + ((6 + 6) \times (6 \times 66 - 6))$
:= $7 + ((7 - 7/7) \times (((7 + 7)/7) + 777))$
:= $8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) + 8/8)$
:= $9/9 + (9 \times (((9 + 9)/9)^9 + 9) - 9)$
- ▶ 4682 := $((11 + (11 - 1)) \times (1 + (1 + 1) \times 111)) - 1$
:= $2 + ((2 - 22) \times (22 - 2^{2 \times (2+2)}))$
:= $3 + (((33/3 + 3) \times (333 + 3/3)) + 3)$
:= $4^4 + (4444 - ((4 + 4)/4 + 4 \times 4))$
:= $5^5 + ((5^5 - (55/5)) / ((5 + 5)/5))$
:= $(6 + 6)/6 + ((6 + 6) \times (6 \times 66 - 6))$
:= $7 + (((7 - 7/7) \times (777 + 7/7)) + 7)$
:= $8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) + ((8 + 8)/8))$
:= $(9 + 9)/9 + (9 \times (((9 + 9)/9)^9 + 9) - 9)$
- ▶ 4683 := $(11 + (11 - 1)) \times (1 + (1 + 1) \times 111)$
:= $(22 - 2/2) \times (222 + 2/2)$
:= $3 + ((3^3 - 3) \times (33 \times (3 + 3) - 3))$
:= $4^4 + (4444 - (4 \times 4 + 4/4))$
:= $5^5 + (((5^5 + 5/5) / ((5 + 5)/5)) - 5)$
:= $(6/6 + 6) \times ((6 \times 6 / (6 + 6)) + 666)$
:= $7 + (((7 - 7/7) \times 777) + 7) + 7$
:= $88/8 + (8 \times (8 \times (8 \times 8 + 8) + 8))$
:= $((9 + 9 + 9)/9) + (9 \times (((9 + 9)/9)^9 + 9) - 9)$
- ▶ 4684 := $1 + ((11 + (11 - 1)) \times (1 + (1 + 1) \times 111))$
:= $22 + (222 \times (22 - 2/2))$
:= $3 + (((3^3 - 3) \times (33 \times (3 + 3) - 3)) + 3/3)$
:= $4^4 + (4444 - 4 \times 4)$
:= $5^5 + ((5 \times (5^5 - 5) / (5 + 5)) - 5/5)$
:= $6 + (((6 + 6) \times (6 \times 66 - 6)) - ((6 + 6)/6))$
:= $7 \times 7 \times 7 \times (7 + 7) - (777/7 + 7)$
:= $((88 + 8)/8) + (8 \times (8 \times (8 \times 8 + 8) + 8))$
:= $((9 - 99) / (9 + 9)) + 9 \times (((9 + 9)/9)^9 + 9)$
- ▶ 4685 := $1 + (1 + ((11 + (11 - 1)) \times (1 + (1 + 1) \times 111)))$
:= $2 + ((22 - 2/2) \times (222 + 2/2))$
:= $3 \times 3 + ((33/3 + 3) \times (333 + 3/3))$
:= $4/4 + ((4444 - 4 \times 4) + 4^4)$
:= $5^5 + (5 \times (5^5 - 5) / (5 + 5))$
:= $6 + (((6 + 6) \times (6 \times 66 - 6)) - 6/6)$
:= $((7 - 777) / 7) + (7 \times 7 \times 7 \times (7 + 7) - 7)$
:= $88 + (8 \times 8 \times (8 \times 8 + 8) - (88/8))$
:= $((9 - 9 \times 9) / (9 + 9)) + 9 \times (((9 + 9)/9)^9 + 9)$
- ▶ 4686 := $(1 + 1) \times (11 \times (((1 + 1) \times (1 + 111)) - 11))$
:= $2 \times ((22/2)^2 + 2222)$
:= $(3 - (3 + 3)^3) \times (33/3 - 33)$
:= $4444 + 44 \times 44 / (4 + 4)$
:= $5 + (((5/5 + 5)^5 - 5^5) + 5 \times 5) + 5$
:= $6 + ((6 + 6) \times (6 \times 66 - 6))$
:= $(7 - 7/7) \times ((777 - 7) + (77/7))$
:= $((8 + 8)/8) + 8 \times 8 \times ((8 \times 8 - 8/8) + 8)$
:= $9 \times (((9 + 9)/9)^9 + 9) - (9 + 9 + 9)/9$
- ▶ 4687 := $(111 - 1 - 1) \times (((1 + 1) \times (11 + 11)) - 1)$
:= $(2 \times 2222) + (22^2 + 2)/2$
:= $3/3 + ((3 - (3 + 3)^3) \times (33/3 - 33))$
:= $4444 + ((4 - 4/4)^{4+4/4})$
:= $5^5 + ((5^5 - 5/5) / ((5 + 5)/5))$
:= $6 + (((6 + 6) \times (6 \times 66 - 6)) + 6/6)$
:= $7 + ((7/7 + 77) \times (77/7 + 7 \times 7))$
:= $8 + (((8 \times (8 \times (8 \times 8 + 8) + 8)) - 8/8) + 8)$
:= $9 \times (((9 + 9)/9)^9 + 9) - (9 + 9)/9$

$$\begin{aligned}
\blacktriangleright 4688 &:= 1 + ((111 - 1 - 1) \times (((1 + 1) \times (11 + 11)) - 1)) \\
&:= 2 + ((2 \times 2222) + 22^2/2) \\
&:= ((33/3 + 3)^3) + (3 \times 3 \times (3 + 3)^3) \\
&:= 4 + ((4444 - 4 \times 4) + 4^4) \\
&:= 5^5 + ((5^5 + 5/5)/(5 + 5)/5) \\
&:= (6 \times 66 \times (6 + 6)) - ((6 + 6)/6)^6 \\
&:= (7/7 + 7) \times (7 \times (77 + 7) - ((7 + 7)/7)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) + 8) \\
&:= 9 \times (((9 + 9)/9)^9 + 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4693 &:= (1 + 1 + 11) \times (((1 + 1) \times (11 - 1)) - 1)^{1+1} \\
&:= (22/2 + 2) \times ((22 - (2/2 + 2))^2) \\
&:= 3 + ((3/3 + 3)^{3+3} + 3 \times 33 \times (3 + 3)) \\
&:= 4 + ((4444 - 44/4) + 4^4) \\
&:= 5 + (((5^5 + 5/5)/(5 + 5)/5) + 5^5) \\
&:= 6 + (((6 + 6) \times (6 \times 66 - 6)) + 6/6) + 6 \\
&:= ((7 + 7) \times (7 \times 7 \times 7 - 7)) - 77/7 \\
&:= 8 + ((8 \times 8 \times (8 \times 8 + 8) - (88/8)) + 88) \\
&:= (9/9 + 9 + 9) \times (((9 + 9)/9)^{9-9/9} - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4698 &:= (11 - 1 - 1) \times (11 + ((1 + 1)^{11-1-1} - 1)) \\
&:= 2 + (2 \times (((2 \times (22 + 2))^2) + 2 \times 22)) \\
&:= 3 \times (3 \times ((3 + 3) \times (3 \times 3^3 + 3 + 3))) \\
&:= 4^4 + (4444 - (4 + 4)/4) \\
&:= (55 - 5/5) \times (((5 + 5)/5)^5 + 55) \\
&:= 6 \times 6 + ((6/6 + 6) \times 666) \\
&:= 7/7 + (((7 + 7) \times (7 \times 7 \times 7 - 7)) - 7) \\
&:= 88 + (8 \times 8 \times (8 \times 8 + 8) + ((8 + 8)/8)) \\
&:= 9 + 9 \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4689 &:= (1 + 1 + 1) \times (1 + (11 \times ((1 + 11)^{1+1} - (1 + 1)))) \\
&:= 2 + ((2 \times 2222) + (22^2 + 2)/2) \\
&:= 3 \times ((3 \times ((3 - 3/3)^{3 \times 3})) + 3^3) \\
&:= 4^4 + (4444 - 44/4) \\
&:= 5^5 + ((5 \times (5^5 + 5)/(5 + 5)) - 5/5) \\
&:= 66 \times 66 + 666 \times 6/(6 + 6) \\
&:= ((7 + 7) \times (7 \times 7 \times 7 - 7)) - (7/7 + 7 + 7) \\
&:= (8/8 + 8) \times ((8 \times 8 \times 8 + 8/8) + 8) \\
&:= 9 \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4694 &:= 1 + ((1 + 1 + 11) \times (((1 + 1) \times (11 - 1)) - 1)^{1+1}) \\
&:= (2 \times (((2 \times (22 + 2))^2) + 2 \times 22)) - 2 \\
&:= (33/3 + 3 + 3)^3 - ((3 + 3)^3 + 3) \\
&:= 4^4 + (4444 - ((4 + 4)/4 + 4)) \\
&:= ((5 + 5 + 5) \times (5^5 + 5)/(5 + 5)) - 5/5 \\
&:= 6 + ((6 \times 66 \times (6 + 6)) - ((6 + 6)/6)^6) \\
&:= ((7 - 77)/7) + ((7 + 7) \times (7 \times 7 \times 7 - 7)) \\
&:= 88 + (8 \times 8 \times (8 \times 8 + 8) - ((8 + 8)/8)) \\
&:= ((9 \times 9 + 9)/(9 + 9)) + 9 \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4699 &:= (1 + 1)^{11} + (11 \times (((1 + 1) \times 11^{1+1}) - 1)) \\
&:= 2^{2 \times (2+2)} + ((2 \times 2222) - 2/2) \\
&:= 3^3 + (((3/3 + 3)^3) \times (((3 + 3)^3 + 3)/3)) \\
&:= 4^4 + (4444 - 4/4) \\
&:= 5^5 + (((5 - 5/5)^5 - 5) + 555) \\
&:= 6 \times 6 + (((6/6 + 6) \times 666) + 6/6) \\
&:= (7 + 7)/7 + (((7 + 7) \times (7 \times 7 \times 7 - 7)) - 7) \\
&:= ((8/8 + 8) \times (8 \times 8 \times 8 + 88/8)) - 8 \\
&:= 9 + (9 \times (((9 + 9)/9)^9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4690 &:= (1 + 1) \times (11^{1+1} + ((1 + 1) \times (1 + 111))) \\
&:= 2 \times (((22/2)^2 + 2222) + 2) \\
&:= (33/3 + 3) \times ((333 - 3/3) + 3) \\
&:= 4^4 + ((4 - 44)/4 + 4444) \\
&:= 5^5 + (5 \times (5^5 + 5)/(5 + 5)) \\
&:= (66 + 6/6) \times (((6 + 6)/6)^6 + 6) \\
&:= (7 + 7) \times (7 \times 7 \times 7 - (7/7 + 7)) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 + 8) + 8)) + ((8 + 8)/8)) + 8) \\
&:= 9/9 + 9 \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4695 &:= (1 + 1 + 1) \times (11 + (111 \times (1 + (1 + 1 + 1)))) \\
&:= 2 + ((22/2 + 2) \times ((22 - (2/2 + 2))^2)) \\
&:= 33 + (333 \times (33/3 + 3)) \\
&:= 4^4 + (4444 - (4/4 + 4)) \\
&:= (5 + 5 + 5) \times (5^5 + 5)/(5 + 5) \\
&:= 6 + (666 \times 6/(6 + 6) + 66 \times 66) \\
&:= ((7 + 7) \times (7 \times 7 \times 7 - 7)) - ((7 + 7)/7 + 7) \\
&:= 88 + (8 \times 8 \times (8 \times 8 + 8) - 8/8) \\
&:= 9 + (9 \times (((9 + 9)/9)^9 + 9) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4700 &:= (1 + 1) \times ((11 - 1) \times (11 + ((1 + 1) \times (1 + 11)))) \\
&:= 2^{2 \times (2+2)} + (2 \times 2222) \\
&:= 3 + ((33/3 + 3 + 3)^3 - (3 + 3)^3) \\
&:= 4^4 + 4444 \\
&:= 5 + ((5 + 5 + 5) \times (5^5 + 5)/(5 + 5)) \\
&:= 6 + (((6 \times 66 \times (6 + 6)) - ((6 + 6)/6)^6) + 6) \\
&:= 7 + (((7 + 7) \times (7 \times 7 \times 7 - 7)) - (77/7)) \\
&:= (8888 + 8 \times 8 \times 8)/(8 + 8/8) \\
&:= 99/9 + 9 \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4691 &:= 1 + ((1 + 1) \times (11^{1+1} + ((1 + 1) \times (1 + 111)))) \\
&:= (22^2 + 2)/2 + 2 \times (2222 + 2) \\
&:= 3^3 + ((33/3)^3 + 3333) \\
&:= 4^4 + 4444 - (4/4 + 4 + 4) \\
&:= 5^5 + ((5 \times (5^5 + 5)/(5 + 5)) + 5/5) \\
&:= 66/6 + ((6 + 6) \times (6 \times 66 - 6)) \\
&:= 7 \times 7 \times 7 \times (7 + 7) - 777/7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) + (88/8)) \\
&:= (9 + 9)/9 + 9 \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4696 &:= 1 + ((1 + 1 + 1) \times (11 + (111 \times (1 + (1 + 1 + 1)))) \\
&:= 2 \times (((2 \times (22 + 2))^2) + 2 \times 22) \\
&:= 3/3 + ((333 \times (33/3 + 3)) + 33) \\
&:= 4^4 + (4444 - 4) \\
&:= 55 + ((5/5 + 5)^5 - (5^5 + 5 + 5)) \\
&:= 6 + ((66 + 6/6) \times (((6 + 6)/6)^6 + 6)) \\
&:= (7/7 + 7) \times (7 \times (77 + 7) - 7/7) \\
&:= 88 + 8 \times 8 \times (8 \times 8 + 8) \\
&:= 9 + (9 \times (((9 + 9)/9)^9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4701 &:= (1 + 1 + 1) \times (((1 + 111) \times (1 + (1 + 1 + 1))) - 1) \\
&:= 2/2 + ((2 \times 2222) + 2^{2 \times (2+2)}) \\
&:= ((33/3 + 3) \times (333 + 3)) - 3 \\
&:= 4/4 + (4444 + 4^4) \\
&:= 55 + ((5/5 + 5)^5 - (5^5 + 5)) \\
&:= ((6/6 + 6) \times (666 + 6)) - 6 \times 6/(6 + 6) \\
&:= ((7 + 7) \times (7 \times 7 \times 7 - 7)) - (7 + 7 + 7)/7 \\
&:= 8 \times (8 \times 8 \times 8 + 88) - (88/8 + 88) \\
&:= (99 + 9)/9 + 9 \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4692 &:= (1 + 1 + 1) \times ((1 + 1)^{11} - ((11 + 11)^{1+1})) \\
&:= 2 \times (((2 \times (22 + 2))^2) - 2) + 2 \times 22 \\
&:= 3 + ((333 \times (33/3 + 3)) + 3^3) \\
&:= 4^4 + (4444 - (4 + 4)) \\
&:= 5 + (((5^5 - 5/5)/(5 + 5)/5) + 5^5) \\
&:= 6 + (((6 + 6) \times (6 \times 66 - 6)) + 6) \\
&:= (7 - 7/7) \times ((777 - ((7 + 7)/7)) + 7) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) + ((88 + 8)/8)) \\
&:= ((9 + 9 + 9)/9) + 9 \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4697 &:= 11 \times (1 + ((1 + 1) \times (((1 + 1) \times (1 + 111)) - 1))) \\
&:= 2/2 + (2 \times (((2 \times (22 + 2))^2) + 2 \times 22)) \\
&:= (33/3 + 3 + 3)^3 - (3 + 3)^3 \\
&:= 4/4 + ((4444 - 4) + 4^4) \\
&:= 5 + (((5^5 - 5/5)/(5 + 5)/5) + 5^5) + 5 \\
&:= (6/6 + 6) \times ((666 - 6/6) + 6) \\
&:= ((7 + 7) \times (7 \times 7 \times 7 - 7)) - 7 \\
&:= 8/8 + (8 \times 8 \times (8 \times 8 + 8) + 88) \\
&:= 9 + (9 \times (((9 + 9)/9)^9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4702 &:= (1 + 1) \times (((1 + 111) \times (11 + (11 - 1))) - 1) \\
&:= ((22 + 2) \times ((2^{2+2} - 2)^2)) - 2 \\
&:= 3/3 + (((33/3 + 3) \times (333 + 3)) - 3) \\
&:= 4^4 + (4444 + (4 + 4)/4) \\
&:= 55 + (((5/5 + 5)^5 - (5^5 + 5)) + 5/5) \\
&:= ((6/6 + 6) \times (666 + 6)) - (6 + 6)/6 \\
&:= ((7 + 7) \times (7 \times 7 \times 7 - 7)) - (7 + 7)/7 \\
&:= 8 + ((8 \times 8 \times (8 \times 8 + 8) - ((8 + 8)/8)) + 88) \\
&:= ((99 + 9 + 9)/9) + 9 \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4703 &:= ((1+1) \times ((1+111) \times (11+(11-1)))) - 1 \\
&:= ((22+2) \times ((2^{2+2} - 2)^2)) - 2/2 \\
&:= (33/3)^3 + ((3 \times 3 + 3 + 3)^3 - 3) \\
&:= 4 + ((4444 - 4/4) + 4^4) \\
&:= 5 + ((55 - 5/5) \times (((5+5)/5)^5 + 55)) \\
&:= ((6/6+6) \times (666+6)) - 6/6 \\
&:= ((7+7) \times (7 \times 7 \times 7 - 7)) - 7/7 \\
&:= 8 + ((8 \times 8 \times (8 \times 8 + 8) - 8/8) + 88) \\
&:= 9 + (9 \times (((9+9)/9)^9 + 9) + ((9 \times 9 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4704 &:= (1+1) \times ((1+111) \times (11+(11-1))) \\
&:= (22+2) \times ((2^{2+2} - 2)^2) \\
&:= (33/3+3) \times (333+3) \\
&:= 4 + (4444 + 4^4) \\
&:= 5^5 + ((5 - 5/5)^5 + 555) \\
&:= (6/6+6) \times (666+6) \\
&:= (7+7) \times (7 \times 7 \times 7 - 7) \\
&:= 8 + (8 \times 8 \times (8 \times 8 + 8) + 88) \\
&:= 99 + (9 \times ((9+9)/9)^9 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4705 &:= 1 + ((1+1) \times ((1+111) \times (11+(11-1)))) \\
&:= 2/2 + ((22+2) \times ((2^{2+2} - 2)^2)) \\
&:= 3/3 + ((33/3+3) \times (333+3)) \\
&:= 4 + ((4444 + 4^4) + 4/4) \\
&:= 5 + (((5+5+5) \times (5^5 + 5)/(5+5)) + 5) \\
&:= 6/6 + ((6/6+6) \times (666+6)) \\
&:= 7/7 + ((7+7) \times (7 \times 7 \times 7 - 7)) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 + 8) + 8/8) + 88) \\
&:= 99 + (9 \times ((9+9)/9)^9 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4706 &:= (1+1) \times (1 + ((1+111) \times (11+(11-1)))) \\
&:= 2 + ((22+2) \times ((2^{2+2} - 2)^2)) \\
&:= (33/3)^3 + (3 \times 3 + 3 + 3)^3 \\
&:= 4 + ((4444 + (4+4)/4) + 4^4) \\
&:= 55 + ((5/5+5)^5 - 5^5) \\
&:= (6+6)/6 + ((6/6+6) \times (666+6)) \\
&:= (7+7)/7 + ((7+7) \times (7 \times 7 \times 7 - 7)) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 + 8) + (8+8)/8) + 88) \\
&:= 99 + (9 \times ((9+9)/9)^9 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4707 &:= (11-1-1) \times (11 + (1+1)^{11-1-1}) \\
&:= (22 \times (222 - 2 \times (2+2))) - 2/2 \\
&:= 333 + ((3+3) \times 3^{3+3}) \\
&:= (44 \times (444/4 - 4)) - 4/4 \\
&:= 55 + (((5/5+5)^5 - 5^5) + 5/5) \\
&:= 66 + ((6 \times 66 \times (6+6)) - 666/6) \\
&:= (7+7+7)/7 + ((7+7) \times (7 \times 7 \times 7 - 7)) \\
&:= (8/8+8) \times (8 \times 8 \times 8 + 88/8) \\
&:= 99 + 9 \times ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4708 &:= 11 \times ((11 \times ((1+1+1) \times (1+1+11))) - 1) \\
&:= 22 \times (222 - 2 \times (2+2)) \\
&:= 3/3 + (((3+3) \times 3^{3+3}) + 333) \\
&:= 44 \times (444/4 - 4) \\
&:= 55 + (((5/5+5)^5 - 5^5) + ((5+5)/5)) \\
&:= (((6+6)/6)^{6+6}) + 6 \times (6 \times 6 + 66) \\
&:= 77/7 + (((7+7) \times (7 \times 7 \times 7 - 7)) - 7) \\
&:= 8 + ((8888 + 8 \times 8 \times 8)/(8+8)/8) \\
&:= 9/9 + (9 \times ((9+9)/9)^9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4709 &:= (1+1)^{11} + (((1+1) \times 11^{1+1+1}) - 1) \\
&:= 2/2 + (22 \times (222 - 2 \times (2+2))) \\
&:= 3 + ((3 \times 3 + 3 + 3)^3 + (33/3)^3) \\
&:= 4/4 + (44 \times (444/4 - 4)) \\
&:= 5 + (((5 - 5/5)^5 + 555) + 5^5) \\
&:= (6 \times (66 \times (6+6) - 6)) - 6/6 - 6 \\
&:= 7 + (((7+7) \times (7 \times 7 \times 7 - 7)) - ((7+7)/7)) \\
&:= ((8/8+88) \times (8 \times 8 - 88/8)) - 8 \\
&:= 9 + (9 \times ((9+9)/9)^9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4710 &:= (1+1)^{11} + ((1+1) \times 11^{1+1+1}) \\
&:= 2 + (22 \times (222 - 2 \times (2+2))) \\
&:= 3 + (((3+3) \times 3^{3+3}) + 333) \\
&:= 4^4 + (4444 + (44 - 4)/4) \\
&:= 5^5 + (5 \times ((5^5 - 5)/(5+5) + 5)) \\
&:= (6 \times (66 \times (6+6) - 6)) - 6 \\
&:= 7 + (((7+7) \times (7 \times 7 \times 7 - 7)) - 7/7) \\
&:= 8 \times 8 \times (8 \times 8 + 8) + ((888 - 8)/8 - 8) \\
&:= 999/9 + (9 \times ((9+9)/9)^9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4711 &:= 1 + ((1+1)^{11} + ((1+1) \times 11^{1+1+1})) \\
&:= 2 + ((22 \times (222 - 2 \times (2+2))) + 2/2) \\
&:= 3 + (((3+3) \times 3^{3+3}) + 333) + 3/3 \\
&:= 4^4 + (4444 + 44/4) \\
&:= 5 + (((5/5+5)^5 - 5^5) + 55) \\
&:= 6/6 + ((6 \times (66 \times (6+6) - 6)) - 6) \\
&:= 7 + ((7+7) \times (7 \times 7 \times 7 - 7)) \\
&:= 888/8 + (8 \times 8 \times (8 \times 8 + 8) - 8) \\
&:= ((99+99)/9) + 9 \times (((9+9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4712 &:= (1+1)^{11} + (1+1) \times (1+11^{1+1+1}) \\
&:= 2 + ((22 \times (222 - 2 \times (2+2))) + 2) \\
&:= 3 + (((3 \times 3 + 3 + 3)^3 + (33/3)^3) + 3) \\
&:= 4 + (44 \times (444/4 - 4)) \\
&:= 5 + (((5/5+5)^5 - 5^5) + 55) + 5/5 \\
&:= (6+6)/6 + ((6 \times (66 \times (6+6) - 6)) - 6) \\
&:= 7 + (((7+7) \times (7 \times 7 \times 7 - 7)) + 7/7) \\
&:= 8 \times (8 \times 8 \times 8 + 88) - 88 \\
&:= 9 \times 9 \times (9 \times 9 - 9) - (9999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4713 &:= 1 + (1+1)^{11} + (1+1) \times (1+11^{1+1+1}) \\
&:= (22 \times 222) - (((22/2+2)^2) + 2) \\
&:= 3^{3+3} + (3 \times ((33/3)^3 - 3)) \\
&:= (4+4)^4 + ((4/4+4)^4 - (4+4)) \\
&:= 5 \times 5 + (((5^5 + 5/5)/(5+5)/5) + 5^5) \\
&:= (6 \times (66 \times (6+6) - 6)) - 6 \times 6/(6+6) \\
&:= 7 + (((7+7) \times (7 \times 7 \times 7 - 7)) + ((7+7)/7)) \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 + 88) - 88) \\
&:= 9 + ((9 \times ((9+9)/9)^9 - ((9+9+9)/9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4714 &:= (1+1)^{11} + (1+1) \times (1+1+11^{1+1+1}) \\
&:= 22^2 + ((2 \times (2 \times 22 + 2)^2) - 2) \\
&:= 3/3 + ((3 \times ((33/3)^3 - 3)) + 3^{3+3}) \\
&:= (4+4)/4 \times (((4 - 4/4) + 4)^4 - 44) \\
&:= 5 + (((5 - 5/5)^5 + 555) + 5^5) + 5 \\
&:= (6 \times (66 \times (6+6) - 6)) - (6+6)/6 \\
&:= ((77 - 7)/7) + ((7+7) \times (7 \times 7 \times 7 - 7)) \\
&:= 88 + ((8/8+8) \times (8 \times 8 \times 8 + (8+8)/8)) \\
&:= 9 + (9 \times ((9+9)/9)^9 - ((9+9)/9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4715 &:= 11 + ((1+1) \times ((1+111) \times (11+(11-1)))) \\
&:= (22 \times 222) - ((22/2+2)^2) \\
&:= (33/3+3+3)^3 - 33 \times (3+3) \\
&:= 4 + ((4444 + 44/4) + 4^4) \\
&:= 5^5 + (5 \times ((5^5 + 5)/(5+5) + 5)) \\
&:= (6 \times (66 \times (6+6) - 6)) - 6/6 \\
&:= 77/7 + ((7+7) \times (7 \times 7 \times 7 - 7)) \\
&:= 8 + ((8/8+8) \times (8 \times 8 \times 8 + 88/8)) \\
&:= 9 + ((9 \times ((9+9)/9)^9 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4716 &:= (1+1+1) \times ((1+11) \times ((11 \times (1+11)) - 1)) \\
&:= 22^2 + (2 \times (2 \times 22 + 2)^2) \\
&:= (3+3) \times ((33 \times (3^3 - 3)) - (3+3)) \\
&:= 4 \times 4 + (4444 + 4^4) \\
&:= 5 + (((5/5+5)^5 - 5^5) + 55) + 5 \\
&:= 6 \times (66 \times (6+6) - 6) \\
&:= (7 - 7/7) \times (((7+7)/7) + 777) + 7 \\
&:= (8/8+8) \times (((88+8)/8) + 8 \times 8 \times 8) \\
&:= 9 + (9 \times ((9+9)/9)^9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4717 &:= 1 + ((1+1+1) \times ((1+11) \times ((11 \times (1+11)) - 1))) \\
&:= 2 + ((22 \times 222) - ((22/2+2)^2)) \\
&:= ((3/3+3+3)^3) + ((3+3) \times 3^{3+3}) \\
&:= (4+4)^4 + ((4/4+4)^4 - 4) \\
&:= 55 + (((5/5+5)^5 - 5^5) + (55/5)) \\
&:= 6/6 + (6 \times (66 \times (6+6) - 6)) \\
&:= 7 + (((7+7) \times (7 \times 7 \times 7 - 7)) - 7/7) + 7 \\
&:= (8/8+88) \times (8 \times 8 - 88/8) \\
&:= 9 + ((9 \times ((9+9)/9)^9 + 99) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4718 &:= (11 \times (11 \times ((1+1+1) \times (1+1+11)))) - 1 \\
&:= 2 + ((2 \times (2 \times 22 + 2)^2) + 22^2) \\
&:= (33/3 + 3) \times ((333 + 3/3) + 3) \\
&:= 4/4 + (((4/4 + 4)^4 - 4) + (4 + 4)^4) \\
&:= ((5+5)/5 + 5) \times (((5^5 - 5)/5 - 5) + 55) \\
&:= (6+6)/6 + (6 \times (66 \times (6+6) - 6)) \\
&:= 7 + (((7+7) \times (7 \times 7 \times 7 - 7)) + 7) \\
&:= 8 \times 8 \times (8 \times 8 + 8) + (888 - 8)/8 \\
&:= 99 + (9 \times ((9+9)/9)^9 + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4719 &:= 11 \times (11 \times ((1+1+1) \times (1+1+11))) \\
&:= 222/2 + (2 \times ((2 \times (22+2))^2)) \\
&:= 33 \times (((333-3)/3) + 33) \\
&:= 44/4 + (44 \times (444/4 - 4)) \\
&:= 5^5 + (((5-5/5)^5 - 55) + 5^5/5) \\
&:= 6 \times 666 + (((6 \times 6/(6+6))^6) - 6) \\
&:= 7 + (((7+7) \times (7 \times 7 \times 7 - 7)) + 7/7) + 7) \\
&:= 888/8 + 8 \times 8 \times (8 \times 8 + 8) \\
&:= 999/9 + 9 \times ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4720 &:= 1 + (11 \times (11 \times ((1+1+1) \times (1+1+11)))) \\
&:= 22^2 + (2 \times ((2 \times 22 + 2)^2 + 2)) \\
&:= (3 \times (3+3))^3 - ((3333+3)/3) \\
&:= 4 \times ((4 \times ((4^4 - 4) + 44)) - 4) \\
&:= 5 \times ((5-5/5)^5 - (5 \times 5 + 55)) \\
&:= 6 + ((6 \times (66 \times (6+6) - 6)) - ((6+6)/6)) \\
&:= (7/7 + 7) \times (7 \times (77 + 7) + ((7+7)/7)) \\
&:= 8 + (8 \times (8 \times 8 \times 8 + 88) - 88) \\
&:= 9 \times ((9+9)/9)^9 + ((999+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4721 &:= 1 + (1 + (11 \times (11 \times ((1+1+1) \times (1+1+11)))) \\
&:= 2 + ((2 \times ((2 \times (22+2))^2)) + 222/2) \\
&:= (3 \times (3+3))^3 - 3333/3 \\
&:= (4+4)^4 + (4/4 + 4)^4 \\
&:= 5^5/5 + (5-5/5)^{5/5+5} \\
&:= 6 + ((6 \times (66 \times (6+6) - 6)) - 6/6) \\
&:= ((7-7/7) \times (77/7 + 777)) - 7 \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 88) - 88) + 8/8) \\
&:= 9 \times 9 \times (9 \times 9 - 9) - 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4722 &:= (1+1+1) \times (1 + (11 \times (11 \times (1+1+11)))) \\
&:= 2222 + (2 \times (22+2) + 2)^2 \\
&:= 3^{3+3} + (3 \times (33/3)^3) \\
&:= 4/4 + (((4/4 + 4)^4 + (4+4)^4) \\
&:= (5^5 + 5)/5 + (5-5/5)^{5/5+5} \\
&:= 6 + (6 \times (66 \times (6+6) - 6)) \\
&:= 7 + (((7+7) \times (7 \times 7 \times 7 - 7)) + (77/7)) \\
&:= ((8 \times 8 - (8/8+8)) \times (88 - ((8+8)/8))) - 8 \\
&:= 9 \times 9 \times (9 \times 9 - 9) + ((9-9999)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4723 &:= 1 + ((1+1+1) \times (1 + (11 \times (11 \times (1+1+11)))) \\
&:= 222/2 + (2 \times (((2 \times (22+2))^2) + 2)) \\
&:= 3/3 + ((3 \times (33/3)^3) + 3^{3+3}) \\
&:= (4+4)^4 + (((4/4 + 4)^4 + (4+4)/4) \\
&:= (5^5 + 5 + 5)/5 + (5-5/5)^{5/5+5} \\
&:= 6 + ((6 \times (66 \times (6+6) - 6)) + 6/6) \\
&:= 7 \times 7 \times 7 \times (7+7) - ((7+7)/7 + 77) \\
&:= 8 + (((8/8+8) \times (8 \times 8 \times 8 + 88/8)) + 8) \\
&:= ((99/9) \times (((9+9)/9)^9 - 9 \times 9)) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4724 &:= (1+1)^{11} + ((1+11) \times (1 + (1+1) \times 111)) \\
&:= 2 + ((2 \times (22+2) + 2)^2 + 2222) \\
&:= 3 + ((3 \times (3+3))^3 - 3333/3) \\
&:= 4 + (4 \times ((4 \times ((4^4 - 4) + 44)) - 4)) \\
&:= (5-5/5) \times ((5^5 + 5)/5 + 555) \\
&:= 6 + ((6 \times (66 \times (6+6) - 6)) + ((6+6)/6)) \\
&:= 7 \times 7 \times 7 \times (7+7) - 7/7 - 77 \\
&:= 8 + ((8/8+8) \times (((88+8)/8) + 8 \times 8 \times 8)) \\
&:= 9 + (((9 \times ((9+9)/9)^9 - 9/9) + 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4725 &:= (11 + (11-1)) \times (1 + ((1+1) \times (1+111))) \\
&:= (22 - 2/2) \times ((222 + 2/2) + 2) \\
&:= 3 + ((3 \times (33/3)^3) + 3^{3+3}) \\
&:= 4 + (((4/4 + 4)^4 + (4+4)^4) \\
&:= 5 \times ((5 \times 5 \times (55+5)) - 555) \\
&:= 6 \times 666 + ((6 \times 6/(6+6))^6) \\
&:= 7 \times 7 \times 7 \times (7+7) - 77 \\
&:= (8 \times 8 - 8/8) \times (88/8 + 8 \times 8) \\
&:= 9 + ((9 \times ((9+9)/9)^9 + 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4726 &:= 1 + ((11 + (11-1)) \times (1 + ((1+1) \times (1+111)))) \\
&:= 22 + ((22+2) \times ((2^{2+2} - 2)^2)) \\
&:= 3 + (((3 \times (33/3)^3) + 3^{3+3}) + 3/3) \\
&:= 4 + (((4/4 + 4)^4 + (4+4)^4) + 4/4) \\
&:= 5 + ((5-5/5)^{5/5+5} + 5^5/5) \\
&:= 666 + (((6+6)/6)^{6+6}) - 6 \times 6 \\
&:= 7/7 + (7 \times 7 \times 7 \times (7+7) - 77) \\
&:= 8 + (8 \times 8 \times (8 \times 8 + 8) + (888 - 8)/8) \\
&:= 9 + (((9 \times ((9+9)/9)^9 + 99) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4727 &:= 1 + (1 + ((11 + (11-1)) \times (1 + ((1+1) \times (1+111)))) \\
&:= 2 + ((22 - 2/2) \times ((222 + 2/2) + 2)) \\
&:= 3 + (((3 \times (3+3))^3 - 3333/3) + 3) \\
&:= 4 + (((4/4 + 4)^4 + (4+4)^4) + (4+4)/4) \\
&:= 5 + ((5-5/5)^{5/5+5} + (5^5 + 5)/5) \\
&:= 66/6 + (6 \times (66 \times (6+6) - 6)) \\
&:= (7+7)/7 + (7 \times 7 \times 7 \times (7+7) - 77) \\
&:= 8 + (8 \times 8 \times (8 \times 8 + 8) + 888/8) \\
&:= (99/9 + 9 + 9) \times (9 \times (9+9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4728 &:= (1+1) \times ((1+11) \times (1 + (1+1+1+11)^{1+1})) \\
&:= (22+2) \times (((2^{2+2} - 2)^2) + 2/2) \\
&:= (3^3 - 3) \times (33 \times (3+3) - 3/3) \\
&:= (4 \times (4 \times ((4^4 - 4) + 44))) - 4 - 4 \\
&:= (5-5/5) \times ((5^5 + 5 + 5)/5 + 555) \\
&:= 6 + ((6 \times (66 \times (6+6) - 6)) + 6) \\
&:= (7-7/7) \times (77/7 + 777) \\
&:= (8 \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - 8 \\
&:= 9 + (9 \times ((9+9)/9)^9 + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4729 &:= ((11-1) \times ((11+11)^{1+1})) - 111 \\
&:= (22/2)^2 + (2 \times ((2 \times (22+2))^2)) \\
&:= 3/3 + ((3^3 - 3) \times (33 \times (3+3) - 3/3)) \\
&:= 4 + (((4/4 + 4)^4 + (4+4)^4) + 4) \\
&:= (55 \times (555/5 - 5 \times 5)) - 5/5 \\
&:= 6 + (((6 \times (66 \times (6+6) - 6)) + 6/6) + 6) \\
&:= 7 + (((7+7) \times (7 \times 7 \times 7 - 7)) + (77/7)) + 7) \\
&:= 8/8 + ((8 \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - 8) \\
&:= 9 + (9 \times ((9+9)/9)^9 + ((999+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4730 &:= 11 \times (((11 + (11-1))^{1+1}) - 11) \\
&:= 22 + (22 \times (222 - 2 \times (2+2))) \\
&:= (33 - 33/3) \times ((3+3)^3 - 3/3) \\
&:= (44 - 4/4) \times (444 - 4)/4 \\
&:= 55 \times (555/5 - 5 \times 5) \\
&:= 66/6 \times ((6 \times (66+6)) - ((6+6)/6)) \\
&:= ((7/7 - 7) + 7 \times 7) \times (777 - 7)/7 \\
&:= (8 \times 8 - (8/8+8)) \times (88 - ((8+8)/8)) \\
&:= 9 + (9 \times 9 \times (9 \times 9 - 9) - 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4731 &:= 1 + (11 \times (((11 + (11-1))^{1+1}) - 11)) \\
&:= 2 + ((2 \times ((2 \times (22+2))^2)) + (22/2)^2) \\
&:= 3^{3+3} + 3 \times ((33/3)^3 + 3) \\
&:= (4 \times (4 \times ((4^4 - 4) + 44))) - 4/4 - 4 \\
&:= 5 \times 5 + (((5/5 + 5)^5 - 5^5) + 55) \\
&:= 6 + (((6 \times 6/(6+6))^6) + 6 \times 666) \\
&:= 7 + (7 \times 7 \times 7 \times (7+7) - (7/7 + 77)) \\
&:= (88/8 + 8) \times (((8+8) \times (8+8) - 8) + 8/8) \\
&:= 9 + (((9-9999)/9) + 9 \times 9 \times (9 \times 9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4732 &:= (1+1+11) \times (1 + (11 \times (11 \times (1+1+11)))) \\
&:= 2 \times (((2 \times (2+2+2))^2) + 2222) \\
&:= 3/3 + (3 \times ((33/3)^3 + 3) + 3^{3+3}) \\
&:= (4 \times (4 \times ((4^4 - 4) + 44))) - 4 \\
&:= (5+5)/5 + (55 \times (555/5 - 5 \times 5)) \\
&:= (6/6 + 6) \times ((66 - 6)/6 + 666) \\
&:= 7 + (7 \times 7 \times 7 \times (7+7) - 77) \\
&:= 888 + ((8 \times 8 - ((8+8)/8))^{(8+8)/8}) \\
&:= ((99/9) \times (((9+9)/9)^9 - 9 \times 9)) - 9
\end{aligned}$$

- 4733 := $1 + ((1 + 1 + 11) \times (1 + (11 \times (11 \times (1 + 1 + 1))))$
:= $(22/2)^2 + (2 \times ((2 \times (22 + 2))^2) + 2)$
:= $(3 + 3) \times ((33 \times (3^3 - 3)) - 3) - 3/3$
:= $4 + (((4/4 + 4)^4 + (4 + 4)^4) + 4) + 4$
:= $5 + ((5 - 5/5) \times ((5^5 + 5 + 5)/5 + 555))$
:= $6 + ((6 \times (66 \times (6 + 6) - 6)) + (66/6))$
:= $7 + ((7 \times 7 \times 7 \times (7 + 7) - 77) + 7/7)$
:= $8 + ((8 \times 8 - 8/8) \times (88/8 + 8 \times 8))$
:= $9 + (((9 \times (9 + 9)/9)^9 - 9/9) + 99) + 9 + 9$
- 4734 := $((((1 + 1 + 1)^{1+11}) - 1)/(1 + 111)) - 11$
:= $(2/2 + 2) \times ((2 \times (22 - 2))^2 - 22)$
:= $(3 + 3) \times ((33 \times (3^3 - 3)) - 3)$
:= $4 + ((44 - 4/4) \times (444 - 4)/4)$
:= $5 + ((55 \times (555/5 - 5 \times 5)) - 5/5)$
:= $(6 \times 66 \times (6 + 6)) - 6 - 6 - 6$
:= $(7 - 7/7) \times ((77 + 7)/7 + 777)$
:= $(8 \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - (8 + 8)/8$
:= $9 + (((9 \times (9 + 9)/9)^9 + 99) + 9) + 9$
- 4735 := $111 + (((1 + 1) \times (1 + 11 \times (1 + 1 + 1)))^{1+1})$
:= $222/2 + (((2^{2+2+2} + 2) + 2)^2)$
:= $3/3 + ((3 + 3) \times ((33 \times (3^3 - 3)) - 3))$
:= $4 \times (4 \times ((4^4 - 4) + 44)) - 4/4$
:= $5 + (55 \times (555/5 - 5 \times 5))$
:= $(6 \times 66 \times (6 + 6)) - (66/6 + 6)$
:= $7 + ((7 - 7/7) \times (77/7 + 777))$
:= $(8 \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - 8/8$
:= $((9 - 9/9) \times (((9 + 9)/9)^9 + 9 \times 9)) - 9$
- 4736 := $(111 \times (1 + 1)^{11-1-1})/(1 + 11)$
:= $2 \times (((2 \times (22 + 2))^2) + 2^{2+2+2})$
:= $((3/3 + 3)^3) \times (((3 + 3)^3 - 3)/3 + 3)$
:= $4 \times (4 \times ((4^4 - 4) + 44))$
:= $5 + ((55 \times (555/5 - 5 \times 5)) + 5/5)$
:= $(6 - 66)/6 + ((6 \times 66 \times (6 + 6)) - 6)$
:= $77/7 + (7 \times 7 \times 7 \times (7 + 7) - 77)$
:= $8 \times ((8 \times (8 \times 8 + 8) + 8) + 8)$
:= $9 + ((99/9 + 9 + 9) \times (9 \times (9 + 9) + 9/9))$
- 4737 := $1 + ((111 \times (1 + 1)^{11-1-1})/(1 + 11))$
:= $((2/2 + 2) \times (22 + 2/2))^2 - 22 - 2$
:= $3 + ((3 + 3) \times ((33 \times (3^3 - 3)) - 3))$
:= $4 \times 4 + ((4/4 + 4)^4 + (4 + 4)^4)$
:= $(5 - (5 + 5)/5) \times ((5 - 5/5)^5 + 555)$
:= $6 + (((6 \times 6/(6 + 6))^6) + 6 \times 666) + 6$
:= $7 + (((7/7 - 7) + 7 \times 7) \times (777 - 7)/7)$
:= $8/8 + (8 \times ((8 \times (8 \times 8 + 8) + 8) + 8))$
:= $9 + ((9 \times (9 + 9)/9)^9 + 999/9) + 9$
- 4738 := $((1 + 1 + 1) \times ((11 \times (1 + 11)^{1+1}) - 1)) - 11$
:= $(22 + 2/2) \times (222 - 2^{2+2})$
:= $3 + (((3 + 3) \times ((33 \times (3^3 - 3)) - 3)) + 3/3)$
:= $(4 + 4)/4 + (4 \times (4 \times ((4^4 - 4) + 44)))$
:= $55 + (((5^5 + 5/5)/(5 + 5)/5) - 5) + 5^5$
:= $((6 + 6)/6) \times (6 \times 6 \times 66 - (6/6 + 6))$
:= $77 + (((7 - 7/7) \times 777) - 7/7)$
:= $(8 + 8)/8 + (8 \times ((8 \times (8 \times 8 + 8) + 8) + 8))$
:= $((9 \times (9 \times (99 + 9 + 9))) - 9/9)/(9 + 9)/9$
- 4739 := $(11 \times ((11 + (11 - 1))^{1+1})) - (1 + 111)$
:= $((2/2 + 2) \times (22 + 2/2))^2 - 22$
:= $3 + (((3/3 + 3)^3) \times (((3 + 3)^3 - 3)/3 + 3))$
:= $4 + ((4 \times (4 \times ((4^4 - 4) + 44))) - 4/4)$
:= $5^5 + ((5/5 + 5) \times (5 \times 55 - (5/5 + 5)))$
:= $(6/6 + 6) \times (666 + (66/6))$
:= $77 + ((7 - 7/7) \times 777)$
:= $88/8 + ((8 \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - 8)$
:= $((9 \times (9 \times (99 + 9 + 9))) + 9/9)/(9 + 9)/9$
- 4740 := $(11 - 1) \times (1 + (((11 + 11)^{1+1}) - 11))$
:= $2 \times ((2 \times (2 + 2 + 2)^{2+2}) - 222)$
:= $(3/3 + 3) \times ((33 \times (33 + 3)) - 3)$
:= $4 + (4 \times (4 \times ((4^4 - 4) + 44)))$
:= $(55 + 5) \times ((55 - 5/5) + 5 \times 5)$
:= $(6 + 6) \times (6 \times 66 - 6/6)$
:= $7/7 + (((7 - 7/7) \times 777) + 77)$
:= $(8/(8 + 8)/8) + (8 \times ((8 \times (8 \times 8 + 8) + 8) + 8))$
:= $((99/9) \times (((9 + 9)/9)^9 - 9 \times 9)) - 9/9$
- 4741 := $11 \times (((1 + 1 + 1) \times (1 + 11)^{1+1}) - 1)$
:= $2 + (((2/2 + 2) \times (22 + 2/2))^2) - 22$
:= $33/3 \times (((3 + 3)^{3/3+3}) - 3)/3$
:= $4 + (((4/4 + 4)^4 + (4 + 4)^4) + 4 \times 4)$
:= $(5/5 + 5)^5 - ((55 \times 55 + 5) + 5)$
:= $(6 \times 66 \times (6 + 6)) - 66/6$
:= $(7 \times ((7 \times 7 \times (7 + 7)) - 7)) - (77 + 7)/7$
:= $8 + (((8 \times 8 - 8/8) \times (88/8 + 8 \times 8)) + 8)$
:= $99/9 \times (((9 + 9)/9)^9 - 9 \times 9)$
- 4742 := $1 + (11 \times (((1 + 1 + 1) \times (1 + 11)^{1+1}) - 1))$
:= $2 + (2 \times ((2 \times (2 + 2 + 2)^{2+2}) - 222))$
:= $(3 \times (3 + 3))^3 - (33 \times 33 + 3/3)$
:= $4 + ((4 \times (4 \times ((4^4 - 4) + 44))) + (4 + 4)/4)$
:= $55 + (((5^5 - 5/5)/(5 + 5)/5) + 5^5)$
:= $(6 - 66)/6 + (6 \times 66 \times (6 + 6))$
:= $(7 \times ((7 \times 7 \times (7 + 7)) - 7)) - 77/7$
:= $8 \times 8 \times 88 - (888 + ((8 + 8)/8))$
:= $9/9 + ((99/9) \times (((9 + 9)/9)^9 - 9 \times 9))$
- 4743 := $1 + (1 + (11 \times (((1 + 1 + 1) \times (1 + 11)^{1+1}) - 1)))$
:= $(2/2 + 2)^2 \times ((22 + 2/2)^2 - 2)$
:= $(3 \times (3 + 3))^3 - 33 \times 33$
:= $44 + ((4444 - 4/4) + 4^4)$
:= $55 + (((5^5 + 5/5)/(5 + 5)/5) + 5^5)$
:= $((6 - 66) + 6)/6 + (6 \times 66 \times (6 + 6))$
:= $((7 - 77)/7) + (7 \times ((7 \times 7 \times (7 + 7)) - 7))$
:= $8 \times 8 \times 88 - (888 + 8/8)$
:= $9 \times (((9 \times 9 \times 99 + 9)/(9 + 9)) + 9 \times 9)$
- 4744 := $((((1 + 1 + 1)^{1+11}) - 1)/(1 + 111)) - 1$
:= $2 \times (((2^{2+2} + 2)^2) + 2^{22/2})$
:= $3 \times (3 + 3)^3 + (3/3 + 3)^{3+3}$
:= $44 + (4444 + 4^4)$
:= $5^5 + ((5 \times (5 \times (55 + 5 + 5))) - (5/5 + 5))$
:= $(6 \times 66 \times (6 + 6)) - ((6 + 6)/6 + 6)$
:= $(7 \times ((7 \times 7 \times (7 + 7)) - 7)) - ((7 + 7)/7 + 7)$
:= $8 \times 8 \times 88 - 888$
:= $(9 - 9/9) \times (((9 + 9)/9)^9 + 9 \times 9)$
- 4745 := $((1 + 1 + 1)^{1+11}) - 1/(1 + 111)$
:= $2 + ((2/2 + 2)^2 \times ((22 + 2/2)^2 - 2))$
:= $3 + ((3 + 3) \times 333 + ((33/3 + 3)^3))$
:= $44 + ((4444 + 4^4) + 4/4)$
:= $5 \times ((5 - 5/5)^5 - (5 \times (5 + 5 + 5)))$
:= $(6 \times 66 \times (6 + 6)) - 6/6 - 6$
:= $(7 \times ((7 \times 7 \times (7 + 7)) - 7)) - (7/7 + 7)$
:= $8/8 + (8 \times 8 \times 88 - 888)$
:= $9/9 + ((9 - 9/9) \times (((9 + 9)/9)^9 + 9 \times 9))$
- 4746 := $1 + (((1 + 1 + 1)^{1+11}) - 1)/(1 + 111)$
:= $((2 \times 22) - 2) \times (222/2 + 2)$
:= $3 + ((3 \times (3 + 3))^3 - 33 \times 33)$
:= $4 \times 4 + ((44 - 4/4) \times (444 - 4)/4)$
:= $(5/5 + 5)^5 - (55 \times 55 + 5)$
:= $(6 \times 66 \times (6 + 6)) - 6$
:= $(7 \times ((7 \times 7 \times (7 + 7)) - 7)) - 7$
:= $(8 + 8)/8 + (8 \times 8 \times 88 - 888)$
:= $9 + ((9 \times (9 + 9)/9)^9 + 999/9) + 9 + 9$
- 4747 := $1 + (1 + (((1 + 1 + 1)^{1+11}) - 1)/(1 + 111))$
:= $2/2 + (((2 \times 22) - 2) \times (222/2 + 2))$
:= $3 + ((3/3 + 3)^{3+3} + 3 \times (3 + 3)^3)$
:= $44/4 + (4 \times (4 \times ((4^4 - 4) + 44)))$
:= $5/5 + ((5/5 + 5)^5 - (55 \times 55 + 5))$
:= $6/6 + ((6 \times 66 \times (6 + 6)) - 6)$
:= $7/7 + ((7 \times ((7 \times 7 \times (7 + 7)) - 7)) - 7)$
:= $88/8 + (8 \times ((8 \times (8 \times 8 + 8) + 8) + 8))$
:= $9 + (((9 \times (9 \times (99 + 9 + 9))) - 9/9)/(9 + 9)/9)$

$$\begin{aligned}
\blacktriangleright 4748 &:= ((1+1+1) \times ((11 \times (1+11)^{1+1}) - 1)) - 1 \\
&:= 2 + (((2 \times 22) - 2) \times (222/2 + 2)) \\
&:= (3/3 + 3) \times ((33 \times (33 + 3)) - 3/3) \\
&:= (44 \times (4 \times 4 \times 4 + 44)) - 4 \\
&:= 5^5 + ((5 \times (5 \times (55 + 5 + 5))) - ((5 + 5)/5)) \\
&:= (6 + 6)/6 + ((6 \times 66 \times (6 + 6)) - 6) \\
&:= (7 + 7)/7 + ((7 \times ((7 \times 7 \times (7 + 7)) - 7)) - 7) \\
&:= ((88 + 8)/8) + (8 \times ((8 \times (8 \times 8 + 8) + 8) + 8)) \\
&:= 9 + (((9 \times (9 \times (99 + 9 + 9))) + 9/9)/(9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4749 &:= (1 + 1 + 1) \times ((11 \times (1 + 11)^{1+1}) - 1) \\
&:= (((22^{2/2+2}) + 2)/2) - ((22 + 2)^2) \\
&:= 33 \times (3 + 3) \times (3^3 - 3) - 3 \\
&:= 4/4 + ((44 \times (4 \times 4 \times 4 + 44)) - 4) \\
&:= 5^5 + ((5 \times (5 \times (55 + 5 + 5))) - 5/5) \\
&:= (6 \times 66 \times (6 + 6)) - 6 \times 6/(6 + 6) \\
&:= 7 + ((7 \times ((7 \times 7 \times (7 + 7)) - 7)) - (77/7)) \\
&:= 88 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) - (88/8)) \\
&:= (9 + 9 + 9) \times (99 + 9 \times 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4750 &:= 1 + ((1 + 1 + 1) \times ((11 \times (1 + 11)^{1+1}) - 1)) \\
&:= (22 \times ((2 + 2 + 2)^{2/2+2})) - 2 \\
&:= 3/3 + (33 \times (3 + 3) \times (3^3 - 3) - 3) \\
&:= (44 \times (4 \times 4 \times 4 + 44)) - (4 + 4)/4 \\
&:= 5 \times ((5 + 5) \times (5 \times (5 \times 5 - 5) - 5)) \\
&:= (6 \times 66 \times (6 + 6)) - (6 + 6)/6 \\
&:= (7/7 + 7 \times 7) \times ((77/7 + 77) + 7) \\
&:= 8 + (8 \times 8 \times 88 - (888 + ((8 + 8)/8))) \\
&:= 9 + ((99/9) \times (((9 + 9)/9)^9) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4751 &:= (11 \times ((1 + 1 + 1) \times (1 + 11)^{1+1})) - 1 \\
&:= (22 \times ((2 + 2 + 2)^{2/2+2})) - 2/2 \\
&:= 33 \times (3 + 3) \times (3^3 - 3) - 3/3 \\
&:= (44 \times (4 \times 4 \times 4 + 44)) - 4/4 \\
&:= (5/5 + 5)^5 - 55 \times 55 \\
&:= (6 \times 66 \times (6 + 6)) - 6/6 \\
&:= (7 \times ((7 \times 7 \times (7 + 7)) - 7)) - (7 + 7)/7 \\
&:= 8 + (8 \times 8 \times 88 - (888 + 8/8)) \\
&:= 9 \times (9 \times (9 \times 9 - 9) - 9) - (999 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4752 &:= 11 \times ((1 + 1 + 1) \times (1 + 11)^{1+1}) \\
&:= 22 \times ((2 + 2 + 2)^{2/2+2}) \\
&:= 33 \times (3 + 3) \times (3^3 - 3) \\
&:= 44 \times (4 \times 4 \times 4 + 44) \\
&:= 5/5 + ((5/5 + 5)^5 - 55 \times 55) \\
&:= 6 \times 66 \times (6 + 6) \\
&:= (7 \times ((7 \times 7 \times (7 + 7)) - 7)) - 7/7 \\
&:= 8 + (8 \times 8 \times 88 - 888) \\
&:= 9 \times (9 \times (9 \times 9 - 9) - 9) - 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4753 &:= 1 + (11 \times ((1 + 1 + 1) \times (1 + 11)^{1+1})) \\
&:= 2/2 + (22 \times ((2 + 2 + 2)^{2/2+2})) \\
&:= 3/3 + 33 \times (3 + 3) \times (3^3 - 3) \\
&:= 4/4 + (44 \times (4 \times 4 \times 4 + 44)) \\
&:= ((5 + 5)/5 + 5) \times ((5^5 - 5)/5 + 55) \\
&:= 6/6 + (6 \times 66 \times (6 + 6)) \\
&:= 7 \times ((7 \times 7 \times (7 + 7)) - 7) \\
&:= 8 + ((8 \times 8 \times 88 - 888) + 8/8) \\
&:= 9 + ((9 - 9/9) \times (((9 + 9)/9)^9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4754 &:= 1 + (1 + (11 \times ((1 + 1 + 1) \times (1 + 11)^{1+1}))) \\
&:= 2 + (22 \times ((2 + 2 + 2)^{2/2+2})) \\
&:= 3 + (33 \times (3 + 3) \times (3^3 - 3) - 3/3) \\
&:= (4 + 4)/4 + (44 \times (4 \times 4 \times 4 + 44)) \\
&:= 5 + (((5 \times (5 \times (55 + 5 + 5))) - 5/5) + 5^5) \\
&:= (6 + 6)/6 + (6 \times 66 \times (6 + 6)) \\
&:= 7/7 + (7 \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= 8 + ((8 \times 8 \times 88 - 888) + ((8 + 8)/8)) \\
&:= 9 + (((9 - 9/9) \times (((9 + 9)/9)^9) + 9 \times 9)) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4755 &:= (1 + 1 + 1) \times (1 + (11 \times (1 + 11)^{1+1})) \\
&:= 2 + ((22 \times ((2 + 2 + 2)^{2/2+2})) + 2/2) \\
&:= 3 + 33 \times (3 + 3) \times (3^3 - 3) \\
&:= 4 + ((44 \times (4 \times 4 \times 4 + 44)) - 4/4) \\
&:= 5 + ((5 \times (5 \times (55 + 5 + 5))) + 5^5) \\
&:= (6 \times 6/(6 + 6)) + (6 \times 66 \times (6 + 6)) \\
&:= (7 + 7)/7 + (7 \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= 88/8 + (8 \times 8 \times 88 - 888) \\
&:= 99/9 + ((9 - 9/9) \times (((9 + 9)/9)^9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4756 &:= 1 + ((1 + 1 + 1) \times (1 + (11 \times (1 + 11)^{1+1}))) \\
&:= 2 + ((22 \times ((2 + 2 + 2)^{2/2+2})) + 2) \\
&:= 3 + (33 \times (3 + 3) \times (3^3 - 3) + 3/3) \\
&:= 4 + (44 \times (4 \times 4 \times 4 + 44)) \\
&:= 5 + ((5/5 + 5)^5 - 55 \times 55) \\
&:= 6 + ((6 \times 66 \times (6 + 6)) - ((6 + 6)/6)) \\
&:= (7 + 7 + 7)/7 + (7 \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= 888 + ((88 \times 88 - 8)/(8 + 8)/8) \\
&:= (9/9 + 9 \times 9) \times (((9 \times 99 - 9)/(9 + 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4757 &:= 1 + (1 + ((1 + 1 + 1) \times (1 + (11 \times (1 + 11)^{1+1})))) \\
&:= (((2/2 + 2) \times (22 + 2/2))^2) - 2 - 2 \\
&:= (((3/3 + 3)^3) + 3) \times (((3 + 3)^3 - 3)/3) \\
&:= (((4^4 + 4)/4 + 4)^{(4+4)/4}) - 4 \\
&:= 5 + (((5/5 + 5)^5 - 55 \times 55) + 5/5) \\
&:= 6 + ((6 \times 66 \times (6 + 6)) - 6/6) \\
&:= 77/7 + ((7 \times ((7 \times 7 \times (7 + 7)) - 7)) - 7) \\
&:= ((8 \times 8 - 8/8) + 8) \times ((88/8 - 8) + 8 \times 8) \\
&:= 9 \times (((9 + 9)/9)^9 + 9 + 9) - (99 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4758 &:= (1 + 1 + 1) \times (1 + (1 + (11 \times (1 + 11)^{1+1}))) \\
&:= 2 \times (((2/2 + 2 + 2) + 2)^{2+2}) - 22 \\
&:= 3 + (33 \times (3 + 3) \times (3^3 - 3) + 3) \\
&:= ((4 + 4)/4 \times (((4 - 4/4) + 4)^4)) - 44 \\
&:= 5 + (((5 + 5)/5 + 5) \times ((5^5 - 5)/5 + 55)) \\
&:= 6 + (6 \times 66 \times (6 + 6)) \\
&:= 7 + ((7 \times ((7 \times 7 \times (7 + 7)) - 7)) - ((7 + 7)/7)) \\
&:= 88 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) - ((8 + 8)/8)) \\
&:= 9 \times (((9 + 9)/9)^9 + 9 + 9) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4759 &:= (((1 + 1 + 1) \times (1 + (11 + 11)))^{1+1}) - 1 - 1 \\
&:= (((2/2 + 2) \times (22 + 2/2))^2) - 2 \\
&:= 3 + ((33 \times (3 + 3) \times (3^3 - 3) + 3/3) + 3) \\
&:= (44/4 \times (444 - 44/4)) - 4 \\
&:= 55 + (((5 - 5/5)^5 + 555) + 5^5) \\
&:= 6 + ((6 \times 66 \times (6 + 6)) + 6/6) \\
&:= 7 + ((7 \times ((7 \times 7 \times (7 + 7)) - 7)) - 7/7) \\
&:= 88 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) - 8/8) \\
&:= 9 \times (((9 + 9)/9)^9 + 9 + 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4760 &:= (((1 + 1 + 1) \times (1 + (11 + 11)))^{1+1}) - 1 \\
&:= 2 \times ((2 \times 22)^2 + 2 \times 222) \\
&:= (33/3 + 3) \times (((3/3 + 3 + 3)^3) - 3) \\
&:= 4 + ((44 \times (4 \times 4 \times 4 + 44)) + 4) \\
&:= (5 \times 5 - 5) \times (((5 - (5 + 5)/5)^5) - 5) \\
&:= 6 + ((6 \times 66 \times (6 + 6)) + ((6 + 6)/6)) \\
&:= 7 + (7 \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= 88 + (8 \times (8 \times (8 \times 8 + 8) + 8)) \\
&:= 9 \times (((9 + 9)/9)^9 + 9 + 9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4761 &:= ((1 + 1 + 1) \times (1 + (11 + 11)))^{1+1} \\
&:= ((2/2 + 2) \times (22 + 2/2))^2 \\
&:= ((33 + 33) + 3)^{3-3/3} \\
&:= ((4^4 + 4)/4 + 4)^{(4+4)/4} \\
&:= 5 + (((5/5 + 5)^5 - 55 \times 55) + 5) \\
&:= (6 \times 6/(6 + 6) + 66)^{(6+6)/6} \\
&:= (77 - (7/7 + 7))^{(7+7)/7} \\
&:= (88 - (88/8 + 8))^{(8+8)/8} \\
&:= 9 \times (((9 + 9)/9)^9 + 9 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4762 &:= 1 + (((1 + 1 + 1) \times (1 + (11 + 11)))^{1+1}) \\
&:= 2 + (2 \times ((2 \times 22)^2 + 2 \times 222)) \\
&:= 3/3 + (((33 + 33) + 3)^{3-3/3}) \\
&:= 4/4 + (((4^4 + 4)/4 + 4)^{(4+4)/4}) \\
&:= 555/5 + ((5/5 + 5)^5 - 5^5) \\
&:= 666 + (((6 + 6)/6)^{6+6}) \\
&:= 7 + ((7 \times ((7 \times 7 \times (7 + 7)) - 7)) + ((7 + 7)/7)) \\
&:= 8/8 + ((88 - (88/8 + 8))^{(8+8)/8}) \\
&:= 9/9 + (9 \times (((9 + 9)/9)^9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4763 &:= 11 \times (1 + ((1 + 1 + 1) \times (1 + 11))^{1+1}) \\
&:= 2 + (((2/2 + 2) \times (22 + 2/2))^2) \\
&:= 33/3 + 33 \times (3 + 3) \times (3^3 - 3) \\
&:= 44/4 \times (444 - 44/4) \\
&:= 5^5 + (((5^5 - 55)/5) + (5 - 5/5)^5) \\
&:= 66/6 + (6 \times 66 \times (6 + 6)) \\
&:= ((77 - 7)/7) + (7 \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= 8 + ((8 \times 8 \times 88 - 888) + (88/8)) \\
&:= (9 + 9)/9 + (9 \times (((9 + 9)/9)^9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4764 &:= 1 + (11 \times (1 + ((1 + 1 + 1) \times (1 + 11))^{1+1})) \\
&:= 2 \times (((2 \times 22)^2 + 2 \times 222) + 2) \\
&:= 3 + (((33 + 33) + 3)^{3-3/3}) \\
&:= 4^4 + (4444 + 4 \times 4 \times 4) \\
&:= 5^5 + ((55 \times (5 \times 5 + 5)) - (55/5)) \\
&:= 6 + ((6 \times 66 \times (6 + 6)) + 6) \\
&:= 77/7 + (7 \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= 888 + ((88 \times 88 + 8)/(8 + 8)/8) \\
&:= ((9 + 9 + 9)/9) + (9 \times (((9 + 9)/9)^9 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4765 &:= 1 + (1 + (11 \times (1 + ((1 + 1 + 1) \times (1 + 11))^{1+1}))) \\
&:= 2 + (((2/2 + 2) \times (22 + 2/2))^2 + 2) \\
&:= 3 + (((33 + 33) + 3)^{3-3/3}) + 3/3 \\
&:= 4 + (((4^4 + 4)/4 + 4)^{(4+4)/4}) \\
&:= 5^5 + ((55 \times (5 \times 5 + 5)) - (5 + 5)) \\
&:= 6 + (((6 \times 66 \times (6 + 6)) + 6/6) + 6) \\
&:= (77 + 7)/7 + (7 \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= 8 + (((8 \times 8 - 8/8) + 8) \times ((88/8 - 8) + 8 \times 8)) \\
&:= 9 + ((9/9 + 9 \times 9) \times (((9 \times 99 - 9)/(9 + 9)) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4766 &:= 11 + ((1 + 1 + 1) \times (1 + (11 \times (1 + 11))^{1+1})) \\
&:= 2 + (2 \times (((2 \times 22)^2 + 2 \times 222) + 2)) \\
&:= 3 + (33 \times (3 + 3) \times (3^3 - 3) + 33/3) \\
&:= 4 + (((4^4 + 4)/4 + 4)^{(4+4)/4}) + 4/4 \\
&:= 5 + (((5/5 + 5)^5 - 55 \times 55) + 5) + 5 \\
&:= 6 + (((6 \times 66 \times (6 + 6)) + ((6 + 6)/6)) + 6) \\
&:= 7 + (((7 \times ((7 \times 7 \times (7 + 7)) - 7)) - 7/7) + 7) \\
&:= ((88/8 - 88) \times ((8 + 8)/8) - 8 \times 8) - 8 \\
&:= ((9 - 9 \times 9)/(9 + 9)) + 9 \times (((9 + 9)/9)^9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4767 &:= (11 + (11 - 1)) \times (1 + ((1 + 1) \times (1 + 1 + 111))) \\
&:= 2 + (((((2/2 + 2) \times (22 + 2/2))^2) + 2) + 2) \\
&:= ((3 + 3) \times ((33 \times (3^3 - 3)) + 3)) - 3 \\
&:= 4 + (44/4 \times (444 - 44/4)) \\
&:= ((5 + 5)/5 + 5) \times ((5^5 + 5)/5 + 55) \\
&:= 6 + (((6 \times 6/(6 + 6) + 66)^{(6+6)/6}) \\
&:= 7 + ((7 \times ((7 \times 7 \times (7 + 7)) - 7)) + 7) \\
&:= 8 + (((8 \times (8 \times (8 \times 8 + 8) + 8)) - 8/8) + 88) \\
&:= 9 \times (((9 + 9)/9)^9 + 9 + 9) - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4768 &:= (1 + 1) \times ((1 + 1)^{11} + ((1 + 1 + 1) \times (1 + 111))) \\
&:= 2 \times ((2 \times (222 + 2)) + (2 \times 22)^2) \\
&:= 3/3 + (((3 + 3) \times ((33 \times (3^3 - 3)) + 3)) - 3) \\
&:= 4 \times (4 \times (44 + 4^4) - (4 + 4)) \\
&:= ((5 + 5)/5)^5 \times (5 \times (5 \times 5 + 5) - 5/5) \\
&:= 6 + (((6 + 6)/6)^{6+6}) + 666 \\
&:= 7 + ((77 - (7/7 + 7))^{(7+7)/7}) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 8) + 8)) + 88) \\
&:= 9 \times (((9 + 9)/9)^9 + 9 + 9) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4769 &:= ((1 + 1) \times ((1 + 1) \times (11 \times 111 - 1))) - 111 \\
&:= 2 \times (2 + 2) + (((2/2 + 2) \times (22 + 2/2))^2) \\
&:= ((3 + 3) \times ((33 \times (3^3 - 3)) + 3)) - 3/3 \\
&:= (444/4 \times (44 - 4/4)) - 4 \\
&:= 5^5 + (((5 - 5/5)^5 - 5) + 5^5/5) \\
&:= 6 + ((6 \times 66 \times (6 + 6)) + (66/6)) \\
&:= 7 + (((7 \times ((7 \times 7 \times (7 + 7)) - 7)) + ((7 + 7)/7)) + 7) \\
&:= 8 + ((88 - (88/8 + 8))^{(8+8)/8}) \\
&:= 9 \times (((9 + 9)/9)^9 + 9 + 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4770 &:= (11 - 1 - 1) \times (1 + (1 + 11 + 11))^{1+1} \\
&:= (2/2 + 2)^2 \times ((22 \times (22 + 2)) + 2) \\
&:= (3 + 3) \times ((33 \times (3^3 - 3)) + 3) \\
&:= (4 + 4)/4 \times (((4 - 4/4) + 4)^4) - 4 \times 4 \\
&:= 5^5 + ((55 \times (5 \times 5 + 5)) - 5) \\
&:= 6 + (((6 \times 66 \times (6 + 6)) + 6) + 6) \\
&:= (7 - 7/7) \times ((77/7 + 777) + 7) \\
&:= (8 \times 8 - 88/8) \times ((8 + 8)/8 + 88) \\
&:= 9 \times (((9 + 9)/9)^9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4771 &:= (111 \times (((1 + 1) \times (11 + 11)) - 1)) - 1 - 1 \\
&:= (22 \times 222) - (222/2 + 2) \\
&:= 3/3 + ((3 + 3) \times ((33 \times (3^3 - 3)) + 3)) \\
&:= 4 + ((44/4 \times (444 - 44/4)) + 4) \\
&:= 5^5 + (((55 \times (5 \times 5 + 5)) - 5) + 5/5) \\
&:= 6 + (((6 \times 66 \times (6 + 6)) + 6/6) + 6) + 6 \\
&:= 7 + ((7 \times ((7 \times 7 \times (7 + 7)) - 7)) + (77/7)) \\
&:= 8 \times 8 + ((8/8 + 8) \times (8 \times 8 \times 8 + 88/8)) \\
&:= 9/9 + 9 \times (((9 + 9)/9)^9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4772 &:= (111 \times (((1 + 1) \times (11 + 11)) - 1)) - 1 \\
&:= 2 \times (((2 + 2 + 2) \times ((22 - 2)^2 - 2)) - 2) \\
&:= 3 + (((3 + 3) \times ((33 \times (3^3 - 3)) + 3)) - 3/3) \\
&:= 4 + (4 \times (4 \times (44 + 4^4) - (4 + 4))) \\
&:= 5 + (((5 + 5)/5 + 5) \times ((5^5 + 5)/5 + 55)) \\
&:= 6 + (((6 \times 66 \times (6 + 6)) + ((6 + 6)/6)) + 6) + 6 \\
&:= (7 \times (777 - 77)) - ((7 + 7)/7)^7 \\
&:= 8 + (((88 \times 88 + 8)/(8 + 8)/8) + 888) \\
&:= (9 + 9)/9 + 9 \times (((9 + 9)/9)^9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4773 &:= 111 \times (((1 + 1) \times (11 + 11)) - 1) \\
&:= 222/2 \times ((2 \times 22) - 2/2) \\
&:= 3 + ((3 + 3) \times ((33 \times (3^3 - 3)) + 3)) \\
&:= 444/4 \times (44 - 4/4) \\
&:= 5^5 + (((5 - 5/5)^5 + (5^5 - 5)/5) \\
&:= 666/6 \times ((6 \times 6 + 6/6) + 6) \\
&:= 777/7 \times ((7/7 - 7) + 7 \times 7) \\
&:= 888/8 \times (((88/8 + 8 + 8) + 8) + 8) \\
&:= ((9 + 9 + 9)/9) + 9 \times (((9 + 9)/9)^9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4774 &:= 1 + (111 \times (((1 + 1) \times (11 + 11)) - 1)) \\
&:= 22 \times (222 - (2/2 + 2 + 2)) \\
&:= (33 - 33/3) \times ((3 + 3)^3 + 3/3) \\
&:= 4/4 + (444/4 \times (44 - 4/4)) \\
&:= 5^5 + (((5 - 5/5)^5 + 5^5/5) \\
&:= 6 + (((((6 + 6)/6)^{6+6}) + 666) + 6) \\
&:= 77 \times (((7 \times 7 - 7/7) + 7) + 7) \\
&:= (88/8 - 88) \times (((8 + 8)/8) - 8 \times 8) \\
&:= 99/9 \times (((9 + 9) \times (9 + 9) + (99/9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4775 &:= 1 + (1 + (111 \times (((1 + 1) \times (11 + 11)) - 1))) \\
&:= 2 + (222/2 \times ((2 \times 22) - 2/2)) \\
&:= (3^3 \times (3 \times (3^3 + 33) - 3)) - (3/3 + 3) \\
&:= ((4 - 4/4)^4 \times (((4^4 - 4)/4) - 4)) - 4 \\
&:= 5^5 + (55 \times (5 \times 5 + 5)) \\
&:= 6 + (((6 \times 66 \times (6 + 6)) + (66/6)) + 6) \\
&:= 7 + (((77 - (7/7 + 7))^{(7+7)/7}) + 7) \\
&:= 888/8 + (88 \times (8 \times 8 - 88/8)) \\
&:= ((9 \times 9 + 9)/(9 + 9)) + 9 \times (((9 + 9)/9)^9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4776 &:= (1 + 11) \times (((1 + 1) \times (11 - 1))^{1+1} - (1 + 1)) \\
&:= 2 \times ((2 + 2 + 2) \times ((22 - 2)^2 - 2)) \\
&:= (3^3 - 3) \times (33 \times (3 + 3) + 3/3) \\
&:= (4 \times (4 \times (44 + 4^4) - 4)) - 4 - 4 \\
&:= 5^5 + ((55 \times (5 \times 5 + 5)) + 5/5) \\
&:= (6 + 6) \times (((6 + 6)/6) + 6 \times 66) \\
&:= (7 + 7)/7 + (77 \times (((7 \times 7 - 7/7) + 7) + 7)) \\
&:= (8 + 8 + 8) \times (888/8 + 88) \\
&:= 9 + (9 \times (((9 + 9)/9)^9 + 9 + 9) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4777 &:= 1 + ((1 + 11) \times (((1 + 1) \times (11 - 1))^{1+1} - (1 + 1))) \\
&:= (((22 + 2) \times ((22 - 2)^2 - 2)) + 2)/2 \\
&:= 3 + ((33 - 33/3) \times ((3 + 3)^3 + 3/3)) \\
&:= 4 + (444/4 \times (44 - 4/4)) \\
&:= 5^5 + ((55 \times (5 \times 5 + 5)) + ((5 + 5)/5)) \\
&:= (6 \times (66 \times (6 + 6) + 6)) - 66/6 \\
&:= 7 \times 7 \times 7 \times (7 + 7) - (77/7 + 7 + 7) \\
&:= ((8/8 - 88) \times ((8/8 - 8 \times 8) + 8)) - 8 \\
&:= 9 + (9 \times (((9 + 9)/9)^9 + 9 + 9) - ((9 + 9)/9))
\end{aligned}$$

- ▶ 4778 := $1 + (1 + ((1 + 11) \times (((1 + 1) \times (11 - 1))^{1+1} - (1 + 1)))$
:= $2 + (2 \times ((2 + 2 + 2) \times ((22 - 2)^2 - 2)))$
:= $(3^3 \times (3 \times (3^3 + 33) - 3)) - 3/3$
:= $4 + ((444/4 \times (44 - 4/4)) + 4/4)$
:= $5 + (((5 - 5/5)^5 + (5^5 - 5)/5) + 5^5)$
:= $(6 - 66)/6 + (6 \times (66 \times (6 + 6) + 6))$
:= $7 + (((7 \times ((7 \times 7 \times (7 + 7)) - 7)) + (77/7)) + 7)$
:= $8 + ((8 \times 8 - 88/8) \times ((8 + 8)/8 + 88))$
:= $9 + (9 \times (((9 + 9)/9)^9 + 9 + 9) - 9/9)$
- ▶ 4783 := $1 + ((1 + 1 + 1) \times ((11 \times (1 + (1 + 11)^{1+1})) - 1))$
:= $22 + (((2/2 + 2) \times (22 + 2/2))^2)$
:= $3 + ((3^3 \times (3 \times (3^3 + 33) - 3)) + 3/3)$
:= $(4 \times (4 \times (44 + 4^4) - 4)) - 4/4$
:= $((5 - 5^5)/(5 + 5)) + (5 \times ((5 - 5/5)^5 - 5))$
:= $6/6 + ((6 \times (66 \times (6 + 6) + 6)) - 6)$
:= $7 \times 7 \times 7 \times (7 + 7) - ((77 + 7)/7 + 7)$
:= $888/8 + (8 \times (8 \times (8 \times 8 + 8) + 8))$
:= $((99 + 9 + 9)/9) + 9 \times (((9 + 9)/9)^9 + 9 + 9)$
- ▶ 4788 := $(1 + 11) \times (((1 + 1) \times (11 - 1))^{1+1} - 1)$
:= $(2 + 2 + 2) \times (2 \times (22 - 2)^2 - 2)$
:= $(3 + 3) \times (((33 \times (3^3 - 3)) + 3) + 3)$
:= $4 + (4 \times (4 \times (44 + 4^4) - 4))$
:= $5^5 + (((5 + 5 + 5) \times 555) - (5 + 5))/5$
:= $6 \times (66 \times (6 + 6) + 6)$
:= $(7 + 7) \times (7 \times 7 \times 7 - 7/7)$
:= $(8/8 - 8 \times 8) \times ((88 + 8)/8 - 88)$
:= $99 + 9 \times (((9 + 9)/9)^9 + 9)$
- ▶ 4779 := $(1 + 1 + 1) \times ((11 \times (1 + (1 + 11)^{1+1})) - (1 + 1))$
:= $(2/2 + 2)^2 \times (((22 + 2/2)^2) + 2)$
:= $3^3 \times (3 \times (3^3 + 33) - 3)$
:= $(4 - 4/4)^4 \times (((4^4 - 4)/4) - 4)$
:= $5 + (((5 - 5/5)^5 + 5^5/5) + 5^5)$
:= $6 + (666/6 \times ((6 \times 6 + 6/6) + 6))$
:= $((7 + 7)/7 + 7) \times (7 \times 77 - (7/7 + 7))$
:= $(8/8 + 8) \times ((8 \times 8 \times 8 + 88/8) + 8)$
:= $9 + 9 \times (((9 + 9)/9)^9 + 9 + 9)$
- ▶ 4784 := $11 + (111 \times (((1 + 1) \times (11 + 11)) - 1))$
:= $2 \times (2 \times (2 \times (((22 + 2)^2) + 22)))$
:= $33 + 33 \times (3 + 3) \times (3^3 - 3) - 3/3$
:= $4 \times (4 \times (44 + 4^4) - 4)$
:= $(55/5 + 5) \times (5 \times (55 + 5) - 5/5)$
:= $(6 + 6)/6 + ((6 \times (66 \times (6 + 6) + 6)) - 6)$
:= $7 \times 7 \times 7 \times (7 + 7) - (77/7 + 7)$
:= $8 \times (8 \times 8 \times 8 + 88) - 8 - 8$
:= $(9 - 9/9) \times (((9 \times 999 - 9)/(9 + 9)) + 99)$
- ▶ 4789 := $1 + ((1 + 11) \times (((1 + 1) \times (11 - 1))^{1+1} - 1))$
:= $((22 + 2) \times (22 - 2)^2 - 22)/2$
:= $3/3 + ((3 + 3) \times (((33 \times (3^3 - 3)) + 3) + 3))$
:= $(4 \times 4 \times (44 + 4^4)) - 44/4$
:= $5^5 + (((5 + 5 + 5) \times 555) - 5)/5$
:= $6/6 + (6 \times (66 \times (6 + 6) + 6))$
:= $7/7 + ((7 + 7) \times (7 \times 7 \times 7 - 7/7))$
:= $8 \times (8 \times 8 \times 8 + 88) - 88/8$
:= $9/9 + (9 \times (((9 + 9)/9)^9 + 9) + 99)$
- ▶ 4780 := $(1 + 1) \times ((11 - 1) \times (((1 + 1) \times (11^{1+1} - 1)) - 1))$
:= $(2 - 22) \times (((2 - 22^2)/2) + 2)$
:= $3/3 + (3^3 \times (3 \times (3^3 + 33) - 3))$
:= $(4 \times (4 \times (44 + 4^4) - 4)) - 4$
:= $5 + ((55 \times (5 \times 5 + 5)) + 5^5)$
:= $((6 + 6)/6)^6 + (6 \times (66 \times (6 + 6) - 6))$
:= $7 + (777/7 \times ((7/7 - 7) + 7 \times 7))$
:= $8 \times (8 \times 8 \times 8 + 88) - ((88 + 8)/8 + 8)$
:= $9 + (9 \times (((9 + 9)/9)^9 + 9 + 9) + 9/9)$
- ▶ 4785 := $11 \times ((1 + 1 + 1) \times (1 + (1 + 11)^{1+1}))$
:= $(22 \times (222 - (2 + 2))) - 22/2$
:= $33 + 33 \times (3 + 3) \times (3^3 - 3)$
:= $4/4 + (4 \times (4 \times (44 + 4^4) - 4))$
:= $55 \times (((5 + 5)/5)^5 + 55)$
:= $(6 \times 66 \times (6 + 6)) + (66 \times 6/(6 + 6))$
:= $((7 - 77)/7) + (7 \times 7 \times 7 \times (7 + 7) - 7)$
:= $(8/8 - 88) \times ((8/8 - 8 \times 8) + 8)$
:= $99/9 \times ((9 + 9) \times (9 + 9) + 999/9)$
- ▶ 4790 := $1 + (1 + ((1 + 11) \times (((1 + 1) \times (11 - 1))^{1+1} - 1)))$
:= $2 + (2 + 2 + 2) \times (2 \times (22 - 2)^2 - 2)$
:= $33/3 + (3^3 \times (3 \times (3^3 + 33) - 3))$
:= $(4 - 44)/4 + (4 \times 4 \times (44 + 4^4))$
:= $5 + (55 \times (((5 + 5)/5)^5 + 55))$
:= $(6 + 6)/6 + (6 \times (66 \times (6 + 6) + 6))$
:= $7 \times 7 \times 7 \times (7 + 7) - (77 + 7)/7$
:= $(8 - 88)/8 + 8 \times (8 \times 8 \times 8 + 88)$
:= $9 + (9 \times (((9 + 9)/9)^9 + 9 + 9) + (99/9))$
- ▶ 4781 := $((1 + 1 + 1) \times ((11 \times (1 + (1 + 11)^{1+1})) - 1)) - 1$
:= $2 + ((2/2 + 2)^2 \times (((22 + 2/2)^2) + 2))$
:= $3 + ((3^3 \times (3 \times (3^3 + 33) - 3)) - 3/3)$
:= $4 + ((444/4 \times (44 - 4/4)) + 4)$
:= $5 + (((55 \times (5 \times 5 + 5)) + 5^5) + 5/5)$
:= $(6 \times (66 \times (6 + 6) + 6)) - 6/6 - 6$
:= $77 + ((7 + 7) \times (7 \times 7 \times 7 - 7))$
:= $8 \times (8 \times 8 \times 8 + 88) - (88/8 + 8)$
:= $99/9 + 9 \times (((9 + 9)/9)^9 + 9 + 9)$
- ▶ 4786 := $1 + (11 \times ((1 + 1 + 1) \times (1 + (1 + 11)^{1+1})))$
:= $2 + (2 \times (2 \times (2 \times (((22 + 2)^2) + 22))))$
:= $3/3 + (33 \times (3 + 3) \times (3^3 - 3) + 33)$
:= $(4 + 4)/4 + (4 \times (4 \times (44 + 4^4) - 4))$
:= $5^5 + ((55 \times (5 \times 5 + 5)) + (55/5))$
:= $(6 \times (66 \times (6 + 6) + 6)) - (6 + 6)/6$
:= $((7 + 7)/7) \times (7 \times 7 \times 7 \times 7 - (7/7 + 7))$
:= $8/8 + ((8/8 - 88) \times ((8/8 - 8 \times 8) + 8))$
:= $99 + (9 \times (((9 + 9)/9)^9 + 9) - ((9 + 9)/9))$
- ▶ 4791 := $(1 + 1 + 1) \times (1 + (1 + (11 \times (1 + (1 + 11)^{1+1}))))$
:= $((2 \times 2 \times (22 + 2) + 2)^2) - 22/2$
:= $3 + ((3 + 3) \times (((33 \times (3^3 - 3)) + 3) + 3))$
:= $(4 \times 4 \times (44 + 4^4)) - (4/4 + 4 + 4)$
:= $5^5 + (5555/5 + 555)$
:= $666/6 + ((6 + 6) \times (6 \times 66 - 6))$
:= $7 \times 7 \times 7 \times (7 + 7) - 77/7$
:= $8 \times (8 \times 8 \times 8 + 88) - (8/8 + 8)$
:= $999/9 + (9 \times (((9 + 9)/9)^9 + 9) - 9)$
- ▶ 4782 := $(1 + 1 + 1) \times ((11 \times (1 + (1 + 11)^{1+1})) - 1)$
:= $2 + ((2 - 22) \times (((2 - 22^2)/2) + 2))$
:= $3 + (3^3 \times (3 \times (3^3 + 33) - 3))$
:= $(4 \times (4 \times (44 + 4^4) - 4)) - (4 + 4)/4$
:= $5 + (((55 \times (5 \times 5 + 5)) + ((5 + 5)/5)) + 5^5)$
:= $(6 \times (66 \times (6 + 6) + 6)) - 6$
:= $7/7 + (((7 + 7) \times (7 \times 7 \times 7 - 7)) + 77)$
:= $8 + ((88/8 - 88) \times (((8 + 8)/8) - 8 \times 8))$
:= $(99 + 9)/9 + 9 \times (((9 + 9)/9)^9 + 9 + 9)$
- ▶ 4787 := $((1 + 11) \times (((1 + 1) \times (11 - 1))^{1+1} - 1)) - 1$
:= $2 + ((22 \times (222 - (2 + 2))) - 22/2)$
:= $(33/3)^3 + ((3 + 3) \times ((3 \times 3 + 3)^3/3))$
:= $4 + ((4 \times (4 \times (44 + 4^4) - 4)) - 4/4)$
:= $5^5 + ((55 \times (5 \times 5 + 5)) + ((55 + 5)/5))$
:= $(6 \times (66 \times (6 + 6) + 6)) - 6/6$
:= $7 \times 7 \times 7 \times (7 + 7) - (7/7 + 7 + 7)$
:= $8 + ((8/8 + 8) \times ((8 \times 8 \times 8 + 88/8) + 8))$
:= $99 + (9 \times (((9 + 9)/9)^9 + 9) - 9/9)$
- ▶ 4792 := $(1 + 1) \times ((1 + 1) \times ((11 \times (111 - 1 - 1)) - 1))$
:= $2 \times (22 \times (222/2 - 2) - 2)$
:= $3^{3+3} + ((3/3 + 3)^{3+3} - 33)$
:= $(4 \times 4 \times (44 + 4^4)) - 4 - 4$
:= $5^5 + ((5555 + 5)/5 + 555)$
:= $6 + ((6 \times (66 \times (6 + 6) + 6)) - ((6 + 6)/6))$
:= $((7 - 77)/7) + 7 \times 7 \times 7 \times (7 + 7)$
:= $8 \times (8 \times 8 \times 8 + 88) - 8$
:= $((9 \times 9 - 99/9)^{(9+9)/9}) - (99 + 9)$

- 4793 := $1 + ((1+1) \times ((1+1) \times ((11 \times (111-1-1)) - 1)))$
:= $(22 \times (222 - (2+2))) - 2/2 - 2$
:= $((33/3+3) \times ((3/3+3+3)^3)) - 3 \times 3$
:= $4 + ((4 \times 4 \times (44+4^4)) - 44/4)$
:= $5^5 + ((5 - (5+5)/5) \times (555+5/5))$
:= $6 + ((6 \times (66 \times (6+6) + 6)) - 6/6)$
:= $7 \times 7 \times 7 \times (7+7) - ((7+7)/7+7)$
:= $8/8 + (8 \times (8 \times 8 \times 8 + 88) - 8)$
:= $((99-9/9) \times ((9 \times 99-9)/(9+9))) - 9$
- 4794 := $(1+1) \times (((1+1) \times (11 \times (111-1-1))) - 1)$
:= $(22 \times (222 - (2+2))) - 2$
:= $33 + (((33+33) + 3)^{3-3/3})$
:= $(4+4)/4 \times (((4-4/4) + 4^4) - 4)$
:= $(55+5) \times (5 \times 5 + 55) - (5/5+5)$
:= $6 + (6 \times (66 \times (6+6) + 6))$
:= $7 \times 7 \times 7 \times (7+7) - (7/7+7)$
:= $(8+8)/8 + (8 \times (8 \times 8 \times 8 + 88) - 8)$
:= $9 + ((99/9) \times ((9+9) \times (9+9) + 999/9))$
- 4795 := $((1+1) \times ((1+1) \times (11 \times (111-1-1)))) - 1$
:= $(22 \times (222 - (2+2))) - 2/2$
:= $3 + (((3/3+3)^{3+3} - 33) + 3^{3+3})$
:= $(4 \times 4 \times (44+4^4)) - 4/4 - 4$
:= $(55+5) \times (5 \times 5 + 55) - 5$
:= $6 + ((6 \times (66 \times (6+6) + 6)) + 6/6)$
:= $7 \times 7 \times 7 \times (7+7) - 7$
:= $(8-8/8) \times (8 \times 88 - (88/8+8))$
:= $9 + ((9 \times (((9+9)/9)^9 + 9) - ((9+9)/9) + 99)$
- 4796 := $(1+1) \times ((1+1) \times (11 \times (111-1-1)))$
:= $22 \times (222 - (2+2))$
:= $(3-3/3) \times (((3/3+3+3)^{3/3+3}) - 3)$
:= $(4 \times 4 \times (44+4^4)) - 4$
:= $5/5 + ((55+5) \times (5 \times 5 + 55) - 5)$
:= $6 + ((6 \times (66 \times (6+6) + 6)) + ((6+6)/6))$
:= $7/7 + (7 \times 7 \times 7 \times (7+7) - 7)$
:= $88/8 \times (888/((8+8)/8) - 8)$
:= $9 + ((9 \times (((9+9)/9)^9 + 9) - 9/9) + 99)$
- 4797 := $1 + ((1+1) \times ((1+1) \times (11 \times (111-1-1))))$
:= $2/2 + (22 \times (222 - (2+2)))$
:= $3 \times (((3+3) \times ((3 \times (3 \times (3^3+3))) - 3)) - 3)$
:= $4/4 + ((4 \times 4 \times (44+4^4)) - 4)$
:= $(5+5)/5 + ((55+5) \times (5 \times 5 + 55) - 5)$
:= $(6 \times 6 - 6/6 + 6) \times (666/6 + 6)$
:= $(7+7)/7 + (7 \times 7 \times 7 \times (7+7) - 7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 88) - (88/8))$
:= $9 + (9 \times (((9+9)/9)^9 + 9) + 99)$
- 4798 := $(1+1) \times (1 + ((1+1) \times (11 \times (111-1-1))))$
:= $2 + (22 \times (222 - (2+2)))$
:= $3^{3+3} + ((3/3+3)^{3+3} - 3^3)$
:= $(4 \times 4 \times (44+4^4)) - (4+4)/4$
:= $(55+5) \times (5 \times 5 + 55) - (5+5)/5$
:= $6 \times 6 + (((6+6)/6)^{6+6}) + 666$
:= $7 + (7 \times 7 \times 7 \times (7+7) - (77/7))$
:= $8 \times (8 \times 8 \times 8 + 88) - (8+8)/8$
:= $9 + ((9 \times (((9+9)/9)^9 + 9) + 99) + 9/9)$
- 4799 := $((1+11) \times ((1+1) \times (11-1))^{1+1}) - 1$
:= $((22+2) \times (22-2)^2) - 2/2$
:= $((33/3+3) \times ((3/3+3+3)^3)) - 3$
:= $(4 \times 4 \times (44+4^4)) - 4/4$
:= $(55+5) \times (5 \times 5 + 55) - 5/5$
:= $66/6 + (6 \times (66 \times (6+6) + 6))$
:= $7 \times 7 \times 7 \times (7+7) - (7+7+7)/7$
:= $8 \times (8 \times 8 \times 8 + 88) - 8/8$
:= $99 + (9 \times (((9+9)/9)^9 + 9) + (99/9))$
- 4800 := $(1+11) \times ((1+1) \times (11-1))^{1+1}$
:= $2 \times ((2+2+2) \times (22-2)^2)$
:= $(3^3+33) \times (3 \times 3^3 - 3/3)$
:= $4 \times 4 \times (44+4^4)$
:= $(55+5) \times (5 \times 5 + 55)$
:= $6 + ((6 \times (66 \times (6+6) + 6)) + 6)$
:= $7 \times 7 \times 7 \times (7+7) - (7+7)/7$
:= $8 \times (8 \times 8 \times 8 + 88)$
:= $999/9 + 9 \times (((9+9)/9)^9 + 9)$
- 4801 := $1 + ((1+11) \times ((1+1) \times (11-1))^{1+1})$
:= $((22+2) \times (22-2)^2) + 2/2$
:= $3 + (((3/3+3)^{3+3} - 3^3) + 3^{3+3})$
:= $4/4 + (4 \times 4 \times (44+4^4))$
:= $5/5 + (55+5) \times (5 \times 5 + 55)$
:= $6 + (((6 \times (66 \times (6+6) + 6)) + 6/6) + 6)$
:= $7 \times 7 \times 7 \times (7+7) - 7/7$
:= $8/8 + 8 \times (8 \times 8 \times 8 + 88)$
:= $((9 \times 9 - 99/9)^{(9+9)/9}) - 99$
- 4802 := $((111-1-1-11)^{1+1})/(1+1)$
:= $2 \times (((2/2+2+2) + 2)^{2+2})$
:= $(33/3+3) \times ((3/3+3+3)^3)$
:= $(4+4)/4 \times (((4-4/4) + 4^4)$
:= $(5+5)/5 + (55+5) \times (5 \times 5 + 55)$
:= $((6+6)/6) \times ((6/6+6)^{6-(6+6)/6})$
:= $7 \times (7 \times 7 \times (7+7))$
:= $(8+8)/8 + 8 \times (8 \times 8 \times 8 + 88)$
:= $(99-9/9) \times ((9 \times 99-9)/(9+9))$
- 4803 := $1 + (((111-1-1-11)^{1+1})/(1+1))$
:= $((2 \times 2 \times (22+2) + 2)^2) + 2/2$
:= $3 + ((3^3+33) \times (3 \times 3^3 - 3/3))$
:= $4 + ((4 \times 4 \times (44+4^4)) - 4/4)$
:= $5 + ((55+5) \times (5 \times 5 + 55) - ((5+5)/5))$
:= $6 + ((6 \times 6 - 6/6 + 6) \times (666/6 + 6))$
:= $7/7 + 7 \times 7 \times 7 \times (7+7)$
:= $88/8 + (8 \times (8 \times 8 \times 8 + 88) - 8)$
:= $9/9 + ((99-9/9) \times ((9 \times 99-9)/(9+9)))$
- 4804 := $1 + (1 + (((111-1-1-11)^{1+1})/(1+1)))$
:= $2 + (2 \times (((2/2+2+2) + 2)^{2+2}))$
:= $3 + (((3/3+3)^{3+3} - 3^3) + 3^{3+3}) + 3$
:= $4 + (4 \times 4 \times (44+4^4))$
:= $5 + ((55+5) \times (5 \times 5 + 55) - 5/5)$
:= $6 + (((6+6)/6)^{6+6}) + 666 + 6 \times 6$
:= $(7+7)/7 + 7 \times 7 \times 7 \times (7+7)$
:= $(8/((8+8)/8)) + 8 \times (8 \times 8 \times 8 + 88)$
:= $((99/9) \times (((9+9)/9)^9 - 9)) - 9 \times 9 \times 9$
- 4805 := $((1+111) \times ((1+1) \times (11+11)) - 1) - 11$
:= $2 + (((2 \times 2 \times (22+2) + 2)^2) + 2)/2$
:= $3 + ((33/3+3) \times ((3/3+3+3)^3))$
:= $4 + ((4 \times 4 \times (44+4^4)) + 4/4)$
:= $5 + (55+5) \times (5 \times 5 + 55)$
:= $6 + ((6 \times (66 \times (6+6) + 6)) + (66/6))$
:= $(7+7+7)/7 + 7 \times 7 \times 7 \times (7+7)$
:= $8 + ((8 \times (8 \times 8 \times 8 + 88) - (88/8)) + 8)$
:= $99 + ((9 \times ((9+9)/9)^9 - 9/9) + 99)$
- 4806 := $(11 \times (1 + ((1+1) \times ((1+1) \times (111-1-1)))) - 1$
:= $2 \times (((2/2+2+2) + 2)^{2+2}) + 2$
:= $3 \times ((3+3) \times ((3 \times (3 \times (3^3+3))) - 3))$
:= $4 + ((4+4)/4 \times (((4-4/4) + 4^4))$
:= $5 + ((55+5) \times (5 \times 5 + 55) + 5/5)$
:= $6 + (((6 \times (66 \times (6+6) + 6)) + 6) + 6)$
:= $77/7 + (7 \times 7 \times 7 \times (7+7) - 7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 88) - ((8+8)/8))$
:= $99 + (9 \times ((9+9)/9)^9 + 99)$
- 4807 := $11 \times (1 + ((1+1) \times ((1+1) \times (111-1-1))))$
:= $22/2 + (22 \times (222 - (2+2)))$
:= $3/3 + (3 \times ((3+3) \times ((3 \times (3 \times (3^3+3))) - 3)))$
:= $4 + (((4 \times 4 \times (44+4^4)) - 4/4) + 4)$
:= $(5 \times (5-5/5)^5) - (5^5+5)/(5+5)$
:= $66 + ((6 \times 66 \times (6+6)) - (66/6))$
:= $7 + (7 \times 7 \times 7 \times (7+7) - ((7+7)/7))$
:= $8 + (8 \times (8 \times 8 \times 8 + 88) - 8/8)$
:= $9/9 + ((9 \times ((9+9)/9)^9 + 99) + 99)$

- ▶ 4808 := $1 + (11 \times (1 + ((1 + 1) \times ((1 + 1) \times (111 - 1 - 1))))))$
:= $2 + (2 \times (((2/2 + 2 + 2) + 2)^{2+2}) + 2)$
:= $3 + (((33/3 + 3) \times ((3/3 + 3 + 3)^3)) + 3)$
:= $4 + ((4 \times 4 \times (44 + 4^4)) + 4)$
:= $((5 - 5^5)/(5 + 5) + (5 \times (5 - 5/5)^5))$
:= $6 + (((6 + 6)/6) \times ((6/6 + 6)^{6-(6+6)/6}))$
:= $7 + (7 \times 7 \times 7 \times (7 + 7) - 7/7)$
:= $8 + 8 \times (8 \times 8 \times 8 + 88)$
:= $9 \times 9 \times (9 \times 9 - 9) - (((9 + 9)/9)^{9/9+9})$
- ▶ 4813 := $1 + ((1 + 11) \times (1 + ((1 + 1) \times (11 - 1))^{1+1}))$
:= $((2 \times 2 \times (22 + 2) + 2)^2 + 22)/2$
:= $3^{3+3} + ((3/3 + 3)^{3+3} - (3 \times 3 + 3))$
:= $4/4 + ((4 \times (4 \times (44 + 4^4) + 4)) - 4)$
:= $5 + (((5 - 5^5)/(5 + 5) + (5 \times (5 - 5/5)^5))$
:= $((6 + 6) \times (6 \times 66 + 6)) - 66/6$
:= $77/7 + 7 \times 7 \times 7 \times (7 + 7)$
:= $88 + ((8 \times 8 - 8/8) \times (88/8 + 8 \times 8))$
:= $9 + (((99/9) \times (((9 + 9)/9)^9) - 9) - 9 \times 9 \times 9)$
- ▶ 4818 := $(1 + 1) \times (11 \times (((1 + 1) \times (111 - 1) - 1))$
:= $22 \times (222 - (2/2 + 2))$
:= $(33 + 33) \times (((3 + 3)^3 + 3)/3)$
:= $4 \times 4 + ((4 + 4)/4 \times (((4 - 4/4) + 4)^4))$
:= $55/5 \times ((5^5 + 5)/(5 + 5) + 5 \times 5 \times 5)$
:= $66 + (6 \times 66 \times (6 + 6))$
:= $77 \times 77 - 7777/7$
:= $((8 - 888)/8) + 88 \times (8 \times 8 - 8)$
:= $99 + (9 \times ((9 + 9)/9)^9 + 999/9)$
- ▶ 4809 := $((11 - 1) \times (((11 + 11)^{1+1}) - (1 + 1))) - 11$
:= $((2 - 22) \times (2 - 22^2) - 22)/2$
:= $3 + (3 \times ((3 + 3) \times ((3 \times (3 \times (3^3 + 3))) - 3)))$
:= $4 + (((4 \times 4 \times (44 + 4^4)) + 4/4) + 4)$
:= $5 + (((55 + 5) \times (5 \times 5 + 55) - 5/5) + 5)$
:= $6 \times 6 + (666/6 \times ((6 \times 6 + 6/6) + 6))$
:= $7 + 7 \times 7 \times 7 \times (7 + 7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 88) + 8/8)$
:= $9 + (9 \times (((9 + 9)/9)^9 + 9) + 999/9)$
- ▶ 4814 := $((1 + 1 + 11) \times 1111) - 1)/(1 + 1 + 1)$
:= $2 + (2 + 2 + 2) \times (2 \times (22 - 2)^2 + 2)$
:= $(33/3 + 3 + 3)^3 - 3 \times 33$
:= $4 + ((4 + 4)/4 \times (((4 - 4/4) + 4)^4) + 4)$
:= $5555 - ((555 + 5^5)/5 + 5)$
:= $(6 - 66)/6 + ((6 + 6) \times (6 \times 66 + 6))$
:= $(77 + 7)/7 + 7 \times 7 \times 7 \times (7 + 7)$
:= $8 + ((8 \times (8 \times 8 \times 8 + 88) - ((8 + 8)/8)) + 8)$
:= $((9 - 9/9) + 9)^{(9+9+9)/9} - 99$
- ▶ 4819 := $1 + ((1 + 1) \times (11 \times (((1 + 1) \times (111 - 1) - 1)))$
:= $((2 - 22) \times (2 - 22^2) - 2)/2$
:= $3^{3+3} + ((3/3 + 3)^{3+3} - (3 + 3))$
:= $4 + ((44 + 4/4) \times (444/4 - 4))$
:= $5555 - (555 + 5^5)/5$
:= $66 + ((6 \times 66 \times (6 + 6)) + 6/6)$
:= $7 + (7 \times 7 \times 7 \times (7 + 7) + ((77 - 7)/7))$
:= $8 + (8 \times (8 \times 8 \times 8 + 88) + (88/8))$
:= $((9 \times 9 - 99/9)^{(9+9)/9}) - 9 \times 9$
- ▶ 4810 := $(11 - 1) \times (((11 + 11)^{1+1}) - (1 + 1 + 1))$
:= $2 \times (((2/2 + 2 + 2) + 2)^{2+2}) + 2 + 2$
:= $3 + ((3 \times ((3 + 3) \times ((3 \times (3 \times (3^3 + 3))) - 3))) + 3/3)$
:= $(4 + 4)/4 \times (((4 - 4/4) + 4)^4) + 4$
:= $5 + ((55 + 5) \times (5 \times 5 + 55) + 5)$
:= $((6 + 6)/6)^6 + ((6 \times 66 \times (6 + 6)) - 6)$
:= $7 + (7 \times 7 \times 7 \times (7 + 7) + 7/7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 88) + ((8 + 8)/8))$
:= $9 + (((9 \times 9 - 99/9)^{(9+9)/9}) - 99)$
- ▶ 4815 := $((1 + 111) \times (((1 + 1) \times (11 + 11)) - 1)) - 1$
:= $2 + (((2 \times 2 \times (22 + 2) + 2)^2 + 22)/2)$
:= $3 \times (3333 - (3 \times 3 + 3)^3)$
:= $(44 + 4/4) \times (444/4 - 4)$
:= $(5 \times ((5 - 5/5)^5 - (55 + 5))) - 5$
:= $66 + ((6 \times 66 \times (6 + 6)) - (6 \times 6/(6 + 6)))$
:= $7 + ((7 \times 7 \times 7 \times (7 + 7) - 7/7) + 7)$
:= $8 + ((8 \times (8 \times 8 \times 8 + 88) - 8/8) + 8)$
:= $9 \times ((99 \times 99 - 9)/(9 + 9) - 9)$
- ▶ 4820 := $(11 - 1) \times (((11 + 11)^{1+1}) - (1 + 1))$
:= $(2 - 22) \times ((2 - 22^2)/2)$
:= $3 + (((33/3 + 3 + 3)^3 - 3 \times 33) + 3)$
:= $4 + (4 \times (4 \times (44 + 4^4) + 4))$
:= $5 \times ((5 - 5/5)^5 - (55 + 5))$
:= $66 + ((6 \times 66 \times (6 + 6)) + ((6 + 6)/6))$
:= $7 + (7 \times 7 \times 7 \times (7 + 7) + (77/7))$
:= $8 + (8 \times (8 \times 8 \times 8 + 88) + ((88 + 8)/8))$
:= $(99/9 + 9) \times (9 \times (9 + 9 + 9) - ((9 + 9)/9))$
- ▶ 4811 := $11 + ((1 + 11) \times ((1 + 1) \times (11 - 1))^{1+1})$
:= $((22 + 2) \times (22 - 2)^2 + 22)/2$
:= $(33/3 + 3 + 3)^3 - (3 \times 33 + 3)$
:= $44/4 + (4 \times 4 \times (44 + 4^4))$
:= $55/5 + (55 + 5) \times (5 \times 5 + 55)$
:= $66 + ((6 \times 66 \times (6 + 6)) - (6/6 + 6))$
:= $7 + (7 \times 7 \times 7 \times (7 + 7) + ((7 + 7)/7))$
:= $88/8 + 8 \times (8 \times 8 \times 8 + 88)$
:= $9 + ((99 - 9/9) \times ((9 \times 99 - 9)/(9 + 9)))$
- ▶ 4816 := $(1 + 111) \times (((1 + 1) \times (11 + 11)) - 1)$
:= $(22 \times (222 - 2)) - 22 - 2$
:= $3^{3+3} + ((3/3 + 3)^{3+3} - 3 \times 3)$
:= $4 \times (4 \times (44 + 4^4) + 4)$
:= $(55/5 + 5) \times (5 \times (55 + 5) + 5/5)$
:= $((6 + 6)/6)^6 + (6 \times 66 \times (6 + 6))$
:= $7 + (7 \times 7 \times 7 \times (7 + 7) + 7)$
:= $8 + (8 \times (8 \times 8 \times 8 + 88) + 8)$
:= $(9 - 9/9) \times (((9 + 9)/9)^9 + 9 \times 9 + 9)$
- ▶ 4821 := $1 + ((11 - 1) \times (((11 + 11)^{1+1}) - (1 + 1)))$
:= $((2 - 22) \times (2 - 22^2) + 2)/2$
:= $((3^3 - 3) \times (33 \times (3 + 3) + 3)) - 3$
:= $4 + ((4 \times (4 \times (44 + 4^4) + 4)) + 4/4)$
:= $5/5 + (5 \times ((5 - 5/5)^5 - (55 + 5)))$
:= $((6 + 6) \times (6 \times 66 + 6)) - 6 \times 6/(6 + 6)$
:= $7 + (7 \times 7 \times 7 \times (7 + 7) + (77 + 7)/7)$
:= $88 \times (8 \times 8 - 8) - ((88/8 + 88) + 8)$
:= $9 \times 9 \times (9 \times 9 - 9) - ((99 + 9)/9 + 999)$
- ▶ 4812 := $(1 + 11) \times (1 + ((1 + 1) \times (11 - 1))^{1+1})$
:= $(2 + 2 + 2) \times (2 \times (22 - 2)^2 + 2)$
:= $33 + (3^3 \times (3 \times (3^3 + 33) - 3))$
:= $(4 \times (4 \times (44 + 4^4) + 4)) - 4$
:= $5 + ((5 \times (5 - 5/5)^5) - (5^5 + 5)/(5 + 5))$
:= $66 + ((6 \times 66 \times (6 + 6)) - 6)$
:= $((77 - 7)/7) + 7 \times 7 \times 7 \times (7 + 7)$
:= $((88 + 8)/8) + 8 \times (8 \times 8 \times 8 + 88)$
:= $(99 + 9)/9 \times (((9 + 9)/9)^9) - 999/9$
- ▶ 4817 := $1 + ((1 + 111) \times (((1 + 1) \times (11 + 11)) - 1))$
:= $(22 \times (222 - 2)) - 22 - 2/2$
:= $3 + ((33/3 + 3 + 3)^3 - 3 \times 33)$
:= $4/4 + (4 \times (4 \times (44 + 4^4) + 4))$
:= $5 + (((5 \times (5 - 5/5)^5) - (5^5 + 5)/(5 + 5)) + 5)$
:= $66 + ((6 \times 66 \times (6 + 6)) - 6/6)$
:= $7 + ((7 \times 7 \times 7 \times (7 + 7) + 7/7) + 7)$
:= $88 \times (8 \times 8 - 8) - 888/8$
:= $9 + (9 \times 9 \times (9 \times 9 - 9) - (((9 + 9)/9)^{9/9+9}))$
- ▶ 4822 := $1 + (1 + ((11 - 1) \times (((11 + 11)^{1+1}) - (1 + 1))))$
:= $2 + ((2 - 22) \times ((2 - 22^2)/2))$
:= $3^{3+3} + ((3/3 + 3)^{3+3} - 3)$
:= $4 + (((4 + 4)/4 \times (((4 - 4/4) + 4)^4)) + 4 \times 4)$
:= $(5 + 5)/5 + (5 \times ((5 - 5/5)^5 - (55 + 5)))$
:= $((6 + 6) \times (6 \times 66 + 6)) - (6 + 6)/6$
:= $7 + (((7 \times 7 \times 7 \times (7 + 7) - 7/7) + 7) + 7)$
:= $(88 + 88)/8 + 8 \times (8 \times 8 \times 8 + 88)$
:= $9 \times 9 + ((99/9) \times (((9 + 9)/9)^9) - 9 \times 9)$

$$\begin{aligned}
\blacktriangleright 4823 &:= 11 + ((1 + 11) \times (1 + ((1 + 1) \times (11 - 1))^{1+1})) \\
&:= 2 + (((2 - 22) \times (2 - 22^2) + 2)/2) \\
&:= (3 \times (3 - 33)) + (33/3 + 3 + 3)^3 \\
&:= 4 + (((44 + 4/4) \times (444/4 - 4) + 4) \\
&:= 5 \times 555 + (((5 + 5)/5)^{55/5}) \\
&:= ((6 + 6) \times (6 \times 66 + 6)) - 6/6 \\
&:= 7 + ((7 \times 7 \times 7 \times (7 + 7) + 7) + 7) \\
&:= (8 - 8/8) \times ((8 \times 88 - (8 + 8)) + 8/8) \\
&:= 9 + (((9 - 9/9) + 9)^{(9+9+9)/9}) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4824 &:= (1 + 11) \times (1 + (1 + ((1 + 1) \times (11 - 1))^{1+1})) \\
&:= 2 \times ((2 + 2 + 2) \times ((22 - 2)^2 + 2)) \\
&:= (3^3 - 3) \times (33 \times (3 + 3) + 3) \\
&:= 4 + ((4 \times (4 \times (44 + 4^4) + 4) + 4) \\
&:= 5 + (5555 - (555 + 5^5)/5) \\
&:= (6 + 6) \times (6 \times 66 + 6) \\
&:= 7 + (((7 \times 7 \times 7 \times (7 + 7) + 7/7) + 7) + 7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 88) + 8) + 8) \\
&:= 9 \times (((99 + 99 + 9)/(9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4825 &:= ((1 + 1)^{1+11}) + (11 - 1 - 1)^{1+1+1} \\
&:= (((22 + 2) \times ((22 - 2)^2 + 2) + 2)/2) \\
&:= 3^{3+3} + (3/3 + 3)^{3+3} \\
&:= (4 + 4)^4 + ((4 - 4/4)^{4+(4+4)/4}) \\
&:= 5 + (5 \times ((5 - 5/5)^5 - (55 + 5))) \\
&:= 6/6 + ((6 + 6) \times (6 \times 66 + 6)) \\
&:= 7 + (77 \times 77 - 7777/7) \\
&:= 8 + (88 \times (8 \times 8 - 8) - 888/8) \\
&:= 9 \times 9 \times 9 + ((9 - 9/9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4826 &:= 1 + (((1 + 1)^{1+11}) + (11 - 1 - 1)^{1+1+1}) \\
&:= 2 + (2 \times ((2 + 2 + 2) \times ((22 - 2)^2 + 2))) \\
&:= 3/3 + ((3/3 + 3)^{3+3} + 3^{3+3}) \\
&:= ((44/4 + 4) + 4) \times (4^4 - (4 + 4)/4) \\
&:= 5 + ((5 \times ((5 - 5/5)^5 - (55 + 5))) + 5/5) \\
&:= (6 + 6)/6 + ((6 + 6) \times (6 \times 66 + 6)) \\
&:= 7 + ((7 \times 7 \times 7 \times (7 + 7) + ((77 - 7)/7) + 7) \\
&:= 8 + (((8 - 888)/8) + 88 \times (8 \times 8 - 8)) \\
&:= (9/9 + 9 + 9) \times (9 \times (9 + 9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4827 &:= 11 + ((1 + 111) \times (((1 + 1) \times (11 + 11)) - 1)) \\
&:= (22 \times (222 - 2)) - (22/2 + 2) \\
&:= 3 + ((3^3 - 3) \times (33 \times (3 + 3) + 3)) \\
&:= 44/4 + (4 \times (4 \times (44 + 4^4) + 4) \\
&:= 5 \times 5 \times 5 \times 55 - (((5 + 5)/5)^{55/5}) \\
&:= 666/6 + (6 \times (66 \times (6 + 6) - 6)) \\
&:= 7 + ((7 \times 7 \times 7 \times (7 + 7) + (77/7) + 7) \\
&:= 8 + ((8 \times (8 \times 8 \times 8 + 88) + (88/8) + 8) \\
&:= 9 + ((9 \times ((9 + 9)/9)^9 + 999/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4828 &:= ((11 - 1) \times ((11 + 11)^{1+1})) - 1 - 11 \\
&:= 2 \times (((2 + 2 + 2) \times ((22 - 2)^2 + 2)) + 2) \\
&:= 3 + ((3/3 + 3)^{3+3} + 3^{3+3}) \\
&:= 44 + (4 \times (4 \times (44 + 4^4) - 4)) \\
&:= 5 + (((5 + 5)/5)^{55/5}) + 5 \times 555 \\
&:= 6 + (((6 + 6) \times (6 \times 66 + 6)) - ((6 + 6)/6)) \\
&:= 7 + ((7 \times 7 \times 7 \times (7 + 7) + (77 + 7)/7) + 7) \\
&:= 88 \times (8 \times 8 - 8) + ((88 - 888)/8) \\
&:= 9 + (((9 \times 9 - 99/9)^{(9+9)/9}) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4829 &:= 11 \times (((11 + (11 - 1))^{1+1}) - (1 + 1)) \\
&:= 22/2 \times (((22 - 2/2)^2) - 2) \\
&:= (3 \times (3 + 3))^3 - (((3 \times 3 + 3/3)^3) + 3) \\
&:= 44/4 \times (444 - (4/4 + 4)) \\
&:= 55 + (((5 - 5/5)^5 + 5^5/5) + 5^5) \\
&:= 6 + (((6 + 6) \times (6 \times 66 + 6)) - 6/6) \\
&:= 77 + ((7 \times ((7 \times 7 \times (7 + 7) - 7)) - 7/7) \\
&:= 88/8 \times (8 \times (8 \times 8 - 8) - (8/8 + 8)) \\
&:= 9 + ((99/9 + 9) \times (9 \times (9 + 9 + 9) - ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4830 &:= (11 - 1) \times (((11 + 11)^{1+1}) - 1) \\
&:= 222 + (2 \times ((2 \times (22 + 2))^2)) \\
&:= (3^3 + 3) \times ((3 + 3) \times 3^3 - 3/3) \\
&:= (44 - 4)/4 \times ((44 \times 44 - 4)/4) \\
&:= 55 + ((55 \times (5 \times 5 + 5)) + 5^5) \\
&:= 6 + ((6 + 6) \times (6 \times 66 + 6)) \\
&:= 77 + (7 \times ((7 \times 7 \times (7 + 7) - 7)) \\
&:= (8 - 8/8) \times (((8 + 8)/8) - (8 + 8)) + 8 \times 88) \\
&:= (9 \times 9 - 99/9) \times (9 \times 9 - (99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4831 &:= 1 + ((11 - 1) \times (((11 + 11)^{1+1}) - 1)) \\
&:= 2 + (22/2 \times (((22 - 2/2)^2) - 2)) \\
&:= 3 + (((3/3 + 3)^{3+3} + 3^{3+3}) + 3) \\
&:= (4 \times ((4 \times (44 + 4^4) + 4) + 4)) - 4/4 \\
&:= 55 + (((55 \times (5 \times 5 + 5)) + 5^5) + 5/5) \\
&:= 6 + (((6 + 6) \times (6 \times 66 + 6)) + 6/6) \\
&:= 7/7 + ((7 \times ((7 \times 7 \times (7 + 7) - 7)) + 77) \\
&:= 88 \times (8 \times 8 - 8) - ((8/8 + 88) + 8) \\
&:= 9 \times 9 \times (9 \times 9 - 9) - (((9 + 9)/9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4832 &:= 1 + (1 + ((11 - 1) \times (((11 + 11)^{1+1}) - 1))) \\
&:= (22 \times (222 - 2)) - 2 \times (2 + 2) \\
&:= (3 \times (3 + 3))^3 - (((3 \times 3 + 3/3)^3) \\
&:= 4 \times ((4 \times (44 + 4^4) + 4) + 4) \\
&:= ((5 + 5)/5)^5 \times (5 \times (5 \times 5 + 5) + 5/5) \\
&:= 6 + (((6 + 6) \times (6 \times 66 + 6)) + ((6 + 6)/6)) \\
&:= (((7 + 7)/7)^7 + ((7 + 7) \times (7 \times 7 \times 7 - 7)) \\
&:= 88 \times (8 \times 8 - 8) - (88 + 8) \\
&:= 9 \times 9 \times (9 \times 9 - 9) - (999 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4833 &:= 1 + (1 + (1 + ((11 - 1) \times (((11 + 11)^{1+1}) - 1)))) \\
&:= 2 + ((22/2 \times (((22 - 2/2)^2) - 2)) + 2) \\
&:= (3 \times (3 + 3))^3 - 3 \times 333 \\
&:= 4 + (44/4 \times (444 - (4/4 + 4))) \\
&:= ((5 - 5^5)/(5 + 5)) + (5 \times ((5 - 5/5)^5 + 5)) \\
&:= 6 + (((6 + 6) \times (6 \times 66 + 6)) + (6 \times 6/(6 + 6))) \\
&:= ((7 + 7)/7 + 7) \times (7 \times 77 - ((7 + 7)/7)) \\
&:= 8/8 + (88 \times (8 \times 8 - 8) - (88 + 8)) \\
&:= 9 \times 9 \times (9 \times 9 - 9) - 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4834 &:= (1 + 1) \times (((1 + 1) \times ((11 \times (111 - 1)) - 1)) - 1) \\
&:= (22 \times (222 - 2)) - 2 - 2 - 2 \\
&:= 3 \times 3 + ((3/3 + 3)^{3+3} + 3^{3+3}) \\
&:= (4 + 4)/4 \times (((4 - 4/4) + 4)^4) + 4 \times 4 \\
&:= 5 \times ((5 - 5/5)^5 - 55) - 55/5 \\
&:= ((66 - 6)/6) + ((6 + 6) \times (6 \times 66 + 6)) \\
&:= 7 + (((7 \times 7 \times 7 \times (7 + 7) + (77/7) + 7) + 7) \\
&:= (8 + 8)/8 + (88 \times (8 \times 8 - 8) - (88 + 8)) \\
&:= 9/9 + (9 \times 9 \times (9 \times 9 - 9) - 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4835 &:= ((1 + 1) \times ((1 + 1) \times ((11 \times (111 - 1)) - 1))) - 1 \\
&:= (2/2 + 2 + 2) \times (2 \times 22^2 - 2/2) \\
&:= 3 + ((3 \times (3 + 3))^3 - ((3 \times 3 + 3/3)^3)) \\
&:= (44 \times (444 - 4)/4) - 4/4 - 4 \\
&:= 5 \times ((5 - 5/5)^5 - 55) - 5 - 5 \\
&:= 66/6 + ((6 + 6) \times (6 \times 66 + 6)) \\
&:= 7777/7 + 7 \times (7 \times 77 - 7) \\
&:= ((8 - 88/8) + 8) \times ((88 \times 88 - 8)/8) \\
&:= (9 + 9)/9 + (9 \times 9 \times (9 \times 9 - 9) - 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4836 &:= (1 + 1) \times ((1 + 1) \times ((11 \times (111 - 1)) - 1)) \\
&:= (22 \times (222 - 2)) - 2 - 2 \\
&:= 3 + ((3 \times (3 + 3))^3 - 3 \times 333) \\
&:= (44 \times (444 - 4)/4) - 4 \\
&:= 5^5 + ((5555 + 5^5)/5 - 5 \times 5) \\
&:= 6 + (((6 + 6) \times (6 \times 66 + 6)) + 6) \\
&:= (7/7 + 77) \times (((7 \times 7 - 7/7) + 7) + 7) \\
&:= (8 \times 8 - ((8 + 8)/8)) \times ((8 - 88)/8 + 88) \\
&:= ((9 + 9 + 9)/9) + (9 \times 9 \times (9 \times 9 - 9) - 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4837 &:= 1 + ((1 + 1) \times ((1 + 1) \times ((11 \times (111 - 1)) - 1))) \\
&:= (22 \times (222 - 2)) - 2/2 - 2 \\
&:= 3 + (((3 \times (3 + 3))^3 - 3 \times 333) + 3/3) \\
&:= 4/4 + ((44 \times (444 - 4)/4) - 4) \\
&:= 5 + (((5 + 5)/5)^5 \times (5 \times (5 \times 5 + 5) + 5/5)) \\
&:= 6 + (((6 + 6) \times (6 \times 66 + 6)) + 6/6) + 6) \\
&:= (7 \times ((7 \times 7 \times (7 + 7) + 7)) - (7 + 7) \\
&:= 8 + (88/8 \times (8 \times (8 \times 8 - 8) - (8/8 + 8))) \\
&:= 9 + (((9 \times 9 - 99/9)^{(9+9)/9}) - 9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4838 &:= (1+1) \times (((1+1) \times (11 \times (111-1))) - 1) \\
&:= (22 \times (222-2)) - 2 \\
&:= 3 + (((3 \times (3+3))^3 - ((3 \times 3 + 3/3)^3)) + 3) \\
&:= (44 \times (444-4)/4) - (4+4)/4 \\
&:= 5 \times ((5-5/5)^5 - 55) - ((5+5)/5 + 5) \\
&:= 6 + (((6+6) \times (6 \times 66+6)) + ((6+6)/6) + 6) \\
&:= 7/7 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) - (7+7)) \\
&:= 88 \times (8 \times 8 - 8) - ((8+8)/8 + 88) \\
&:= (9/9 + 9 \times 9) \times (((9 \times 99+9)/(9+9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4839 &:= ((11-1) \times ((11+11)^{1+1})) - 1 \\
&:= (22 \times (222-2)) - 2/2 \\
&:= ((3+3) \times ((3^3 \times (3^3+3)) - 3)) - 3 \\
&:= (44 \times (444-4)/4) - 4/4 \\
&:= 5 \times ((5-5/5)^5 - 55) - (5/5 + 5) \\
&:= 66 + (666/6 \times ((6 \times 6 + 6/6) + 6)) \\
&:= (7 \times ((7 \times 7 \times (7+7)) + 7)) - (77+7)/7 \\
&:= 88 \times (8 \times 8 - 8) - (8/8 + 88) \\
&:= 9 + ((9 \times 9 - 99/9) \times (9 \times 9 - (99+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4840 &:= (11-1) \times ((11+11)^{1+1}) \\
&:= 22 \times (222-2) \\
&:= (33/3 + 3 \times 3) \times ((3^{3+3} - 3)/3) \\
&:= 44 \times (444-4)/4 \\
&:= 5 \times ((5-5/5)^5 - 55) - 5 \\
&:= 6 + (((6+6) \times (6 \times 66+6)) + ((66-6)/6)) \\
&:= (7 \times ((7 \times 7 \times (7+7)) + 7)) - 77/7 \\
&:= 88 \times (8 \times 8 - (8/8 + 8)) \\
&:= 99/9 \times (((9+9)/9)^9 - 9 \times 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4841 &:= 1 + ((11-1) \times ((11+11)^{1+1})) \\
&:= 2/2 + (22 \times (222-2)) \\
&:= (3 \times (3-3^3)) + (33/3 + 3 + 3)^3 \\
&:= 4/4 + (44 \times (444-4)/4) \\
&:= 5/5 + (5 \times ((5-5/5)^5 - 55) - 5) \\
&:= 6 + (((6+6) \times (6 \times 66+6)) + (66/6)) \\
&:= ((7-77)/7) + (7 \times ((7 \times 7 \times (7+7)) + 7)) \\
&:= 8/8 + (88 \times (8 \times 8 - (8/8 + 8))) \\
&:= 9 + (9 \times 9 \times (9 \times 9 - 9) - (999+9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4842 &:= 1 + (1 + ((11-1) \times ((11+11)^{1+1}))) \\
&:= 2 + (22 \times (222-2)) \\
&:= (3+3) \times ((3^3 \times (3^3+3)) - 3) \\
&:= (4+4)/4 + (44 \times (444-4)/4) \\
&:= (5+5)/5 + (5 \times ((5-5/5)^5 - 55) - 5) \\
&:= 6 + (((6+6) \times (6 \times 66+6)) + 6) + 6) \\
&:= ((7+7)/7 + 7) \times (7 \times 77 - 7/7) \\
&:= (8+8)/8 + (88 \times (8 \times 8 - (8/8 + 8))) \\
&:= 9 + (9 \times 9 \times (9 \times 9 - 9) - 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4843 &:= 1 + (1 + (1 + ((11-1) \times ((11+11)^{1+1})))) \\
&:= 2 + ((22 \times (222-2)) + 2/2) \\
&:= 3/3 + ((3+3) \times ((3^3 \times (3^3+3)) - 3)) \\
&:= 4 + ((44 \times (444-4)/4) - 4/4) \\
&:= 5 \times ((5-5/5)^5 - 55) - (5+5)/5 \\
&:= 6 + (((6+6) \times (6 \times 66+6)) + 6/6) + 6) \\
&:= (7 \times ((7 \times 7 \times (7+7)) + 7)) - (7/7 + 7) \\
&:= ((8-8/8) \times (8 \times 88 - (88/8))) - 8 \\
&:= 9 + ((9 \times 9 \times (9 \times 9 - 9) - 999) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4844 &:= (1+1) \times ((1+1) \times (1 + (11 \times (111-1)))) \\
&:= 2 + ((22 \times (222-2)) + 2) \\
&:= (33/3 + 3) \times (((3/3 + 3 + 3)^3) + 3) \\
&:= 4 + (44 \times (444-4)/4) \\
&:= 5 \times ((5-5/5)^5 - 55) - 5/5 \\
&:= 6 + (((6+6) \times (6 \times 66+6)) + ((6+6)/6) + 6) + 6) \\
&:= (7 \times ((7 \times 7 \times (7+7)) + 7)) - 7 \\
&:= (8-8/8) \times (8 \times 88 - ((88+8)/8)) \\
&:= 99/9 + (9 \times 9 \times (9 \times 9 - 9) - 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4845 &:= 1 + ((1+1) \times ((1+1) \times (1 + (11 \times (111-1))))) \\
&:= 2 + (((22 \times (222-2)) + 2/2) + 2) \\
&:= 3 + ((3+3) \times ((3^3 \times (3^3+3)) - 3)) \\
&:= (4^4 - 4/4) \times ((44/4 + 4) + 4) \\
&:= 5 \times ((5-5/5)^5 - 55) \\
&:= (66/6 + 6) \times (6 \times 66 - 666/6) \\
&:= 7/7 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) - 7) \\
&:= (88/8 + 8) \times ((8+8) \times (8+8) - 8/8) \\
&:= (99 \times 99 - 999/9) / ((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4846 &:= (1+1) \times (1 + ((1+1) \times (1 + (11 \times (111-1))))) \\
&:= 2 + (((22 \times (222-2)) + 2) + 2) \\
&:= 3 + (((3+3) \times ((3^3 \times (3^3+3)) - 3)) + 3/3) \\
&:= 44 + ((4+4)/4 \times (((4-4/4) + 4)^4)) \\
&:= 5/5 + 5 \times ((5-5/5)^5 - 55) \\
&:= ((6+6)/6) \times (6 \times (6 \times 66+6) + (66/6)) \\
&:= (7+7)/7 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) - 7) \\
&:= 8 + (88 \times (8 \times 8 - 8) - ((8+8)/8 + 88)) \\
&:= (99 \times 99 - (9/9 + 99+9)) / ((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4847 &:= ((11 \times (1+11)) - 1) \times (111/(1+1+1)) \\
&:= (22/2 \times ((22-2/2)^2)) - 2 - 2 \\
&:= (33/3 + 3 + 3)^3 - (33+33) \\
&:= (4 \times ((4 \times ((44+4^4) + 4)) - 4)) - 4/4 \\
&:= (5+5)/5 + 5 \times ((5-5/5)^5 - 55) \\
&:= (6 \times 6 + 6/6) \times (66 - 6/6 + 66) \\
&:= 7 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) - (77/7)) \\
&:= 8 + (88 \times (8 \times 8 - 8) - (8/8 + 88)) \\
&:= 9 + ((9/9 + 9 \times 9) \times (((9 \times 99+9)/(9+9)) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4848 &:= (1+1) \times ((1+1) \times (1 + (1 + (11 \times (111-1))))) \\
&:= 2 \times (2+2) + (22 \times (222-2)) \\
&:= (3 \times (3 \times 3 + 3)^3) - (333+3) \\
&:= 4 \times ((4 \times ((44+4^4) + 4)) - 4) \\
&:= 5 + (5 \times ((5-5/5)^5 - 55) - ((5+5)/5)) \\
&:= 66 + ((6 \times (66 \times (6+6) + 6)) - 6) \\
&:= (7 \times 7 - 7/7) \times (7777/77) \\
&:= 8 + (88 \times (8 \times 8 - (8/8 + 8))) \\
&:= (99+9)/9 \times (((9+9)/9)^9) - (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4849 &:= (11 \times ((11 + (11-1))^{1+1})) - 1 - 1 \\
&:= (22/2 \times ((22-2/2)^2)) - 2 \\
&:= (33/3 + 3 + 3)^3 - ((3/3 + 3)^3) \\
&:= 4 + ((4^4 - 4/4) \times ((44/4 + 4) + 4)) \\
&:= 5 + (5 \times ((5-5/5)^5 - 55) - 5/5) \\
&:= 6 \times 6 + (((6+6) \times (6 \times 66+6)) - (66/6)) \\
&:= (7 \times ((7 \times 7 \times (7+7)) + 7)) - (7+7)/7 \\
&:= 8 + ((88 \times (8 \times 8 - (8/8 + 8))) + 8/8) \\
&:= (9+9+9) \times (99+9 \times 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4850 &:= (11-1) \times (1 + ((11+11)^{1+1})) \\
&:= (2/2 + 2 + 2) \times (2 \times 22^2 + 2) \\
&:= (3 \times (3 \times 3 + 3)^3) - (333 + 3/3) \\
&:= (44-4)/4 \times ((44 \times 44 + 4)/4) \\
&:= 5 + 5 \times ((5-5/5)^5 - 55) \\
&:= 6 \times 6 + (((6+6) \times (6 \times 66+6)) + ((6-66)/6)) \\
&:= (7 \times ((7 \times 7 \times (7+7)) + 7)) - 7/7 \\
&:= 8 + ((88 \times (8 \times 8 - (8/8 + 8))) + ((8+8)/8)) \\
&:= (9/9 + 9) \times (((9+9)/9)^9) - (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4851 &:= 11 \times ((11 + (11-1))^{1+1}) \\
&:= 22/2 \times ((22-2/2)^2) \\
&:= 3 \times (3^3 \times (3^3+33) - 3) \\
&:= 44/4 \times ((444-4) + 4/4) \\
&:= 5 + (5 \times ((5-5/5)^5 - 55) + 5/5) \\
&:= (6/6 + 6) \times (((6 \times 6/(6+6))^6) - 6 \times 6) \\
&:= 7 \times ((7 \times 7 \times (7+7)) + 7) \\
&:= (8-8/8) \times (8 \times 88 - (88/8)) \\
&:= 9 \times (((9+9)/9)^9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4852 &:= 1 + (11 \times ((11 + (11-1))^{1+1})) \\
&:= (22 \times 222) - (2 \times 2^{2+2}) \\
&:= 3^3 + ((3/3 + 3)^{3+3} + 3^{3+3}) \\
&:= 4 + (4 \times ((4 \times ((44+4^4) + 4)) - 4)) \\
&:= 5 + (5 \times ((5-5/5)^5 - 55) + ((5+5)/5)) \\
&:= ((6+6)/6)^6 + (6 \times (66 \times (6+6) + 6)) \\
&:= 7/7 + (7 \times ((7 \times 7 \times (7+7)) + 7)) \\
&:= 8 + ((8-8/8) \times (8 \times 88 - ((88+8)/8))) \\
&:= 9/9 + (9 \times (((9+9)/9)^9 + 9) + 9)
\end{aligned}$$

- ▶ 4853 := $1 + (1 + (11 \times ((11 + (11 - 1))^{1+1})))$
:= $2 + (22/2 \times ((22 - 2/2)^2))$
:= $(33/3 + 3 + 3)^3 - (3^3 + 33)$
:= $4^4 \times (4 \times 4 + 4) - (44/4 + 4^4)$
:= $5^5 + (((55 + 5)/5)^{5-(5+5)/5})$
:= $66 + ((6 \times (66 \times (6 + 6) + 6)) - 6/6)$
:= $(7 + 7)/7 + (7 \times ((7 \times 7 \times (7 + 7)) + 7))$
:= $88 \times (8 \times 8 - 8) - (88/8 + 8 \times 8)$
:= $(9 + 9)/9 + (9 \times (((9 + 9)/9)^9 + 9) + 9) + 9)$
- ▶ 4854 := $1 + (1 + (1 + (11 \times ((11 + (11 - 1))^{1+1}))))$
:= $2 + ((22 \times 222) - (2 \times 2^{2+2}))$
:= $3 + (3 \times (3^3 \times (3^3 + 33) - 3))$
:= $4 + ((44 - 4)/4 \times ((44 \times 44 + 4)/4))$
:= $5 + ((5 \times ((5 - 5/5)^5 - 55) - 5/5) + 5)$
:= $66 + (6 \times (66 \times (6 + 6) + 6))$
:= $(7 + 7 + 7)/7 + (7 \times ((7 \times 7 \times (7 + 7)) + 7))$
:= $(8 - 88)/8 + (8 \times ((8 \times 8 \times 8 + 88) + 8))$
:= $(9 - ((9 + 9 + 9)/9)) \times (9 \times (9 \times 9 + 9) - 9/9)$
- ▶ 4855 := $1 + (1 + (1 + (1 + (11 \times ((11 + (11 - 1))^{1+1}))))))$
:= $2 + ((22/2 \times ((22 - 2/2)^2)) + 2)$
:= $3 + ((3 \times (3^3 \times (3^3 + 33) - 3)) + 3/3)$
:= $4 + (44/4 \times ((444 - 4) + 4/4))$
:= $5 + (5 \times ((5 - 5/5)^5 - 55) + 5)$
:= $66 + ((6 \times (66 \times (6 + 6) + 6)) + 6/6)$
:= $77/7 + ((7 \times ((7 \times 7 \times (7 + 7)) + 7)) - 7)$
:= $88 \times (8 \times 8 - 8) - ((8/8 + 8 \times 8) + 8)$
:= $((9 \times 9 + 9)/(9 + 9)) \times (9 \times (99 + 9) - 9/9)$
- ▶ 4856 := $(1 + 1) \times ((11 \times ((1 + 1) \times 111 - 1)) - (1 + 1 + 1))$
:= $2^{2+2} + (22 \times (222 - 2))$
:= $(3 \times 3^3 \times (3^3 + 33)) - (3/3 + 3)$
:= $4 \times 4 + (44 \times (444 - 4)/4)$
:= $5^5 + ((5555 + 5^5)/5 - 5)$
:= $66 + ((6 \times (66 \times (6 + 6) + 6)) + ((6 + 6)/6))$
:= $7 + ((7 \times ((7 \times 7 \times (7 + 7)) + 7)) - ((7 + 7)/7))$
:= $88 \times (8 \times 8 - 8) - (8 \times 8 + 8)$
:= $(9 - 9/9) \times (9 \times 9 \times 9 - (999 + 99)/9)$
- ▶ 4857 := $((1 + 1) \times ((11 \times ((1 + 1) \times 111 - 1)) - (1 + 1))) - 1$
:= $((((22 - 2) \times (22^2 + 2)) - 2)/2) - 2$
:= $(3 \times 3^3 \times (3^3 + 33)) - 3$
:= $(44/4 \times (444 - 4/4)) - 4 \times 4$
:= $5^5 + (((5555 + 5^5) + 5)/5) - 5$
:= $666/6 + ((6 \times 66 \times (6 + 6)) - 6)$
:= $7 + ((7 \times ((7 \times 7 \times (7 + 7)) + 7)) - 7/7)$
:= $8/8 + (88 \times (8 \times 8 - 8) - (8 \times 8 + 8))$
:= $((9 + 9 + 9)/9) \times ((9 \times (99 + 9 \times 9)) - 9/9)$
- ▶ 4858 := $(1 + 1) \times ((11 \times ((1 + 1) \times 111 - 1)) - (1 + 1))$
:= $(22 \times 222) - 22 - 2 - 2$
:= $3/3 + ((3 \times 3^3 \times (3^3 + 33)) - 3)$
:= $(44/4 \times (444 - (4 + 4)/4)) - 4$
:= $5 + (((55 + 5)/5)^{5-(5+5)/5}) + 5^5$
:= $6 + ((6 \times (66 \times (6 + 6) + 6)) + ((6 + 6)/6)^6)$
:= $7 + (7 \times ((7 \times 7 \times (7 + 7)) + 7))$
:= $(8 - 8/8) \times ((8 - 88)/8 + 8 \times 88)$
:= $(9 + 9 + 9) \times (99 + 9 \times 9) - (9 + 9)/9$
- ▶ 4859 := $(1 + 1 + 111) \times (((1 + 1) \times (11 + 11)) - 1)$
:= $((22 - 2) \times (22^2 + 2)) - 2)/2$
:= $(3 \times 3^3 \times (3^3 + 33)) - 3/3$
:= $(44 - 4/4) \times ((444 + 4 + 4)/4)$
:= $((5 \times 5 - 5) \times ((5 - (5 + 5)/5)^5)) - 5/5$
:= $6 \times 6 + (((6 + 6) \times (6 \times 66 + 6)) - 6/6)$
:= $7 + ((7 \times ((7 \times 7 \times (7 + 7)) + 7)) + 7/7)$
:= $8 + ((8 - 8/8) \times (8 \times 88 - (88/8)))$
:= $(9 + 9 + 9) \times (99 + 9 \times 9) - 9/9$
- ▶ 4860 := $(1 + 1) \times ((11 \times ((1 + 1) \times 111 - 1)) - 1)$
:= $(22 - 2) \times (22^2 + 2)/2$
:= $3 \times 3^3 \times (3^3 + 33)$
:= $(4 \times 4 + 44) \times (4 - 4/4)^4$
:= $(5 \times 5 - 5) \times ((5 - (5 + 5)/5)^5)$
:= $6 \times (((66 \times (6 + 6) + 6) + 6) + 6)$
:= $((7 + 7)/7 + 7) \times (7 \times 77 + 7/7)$
:= $((8 \times 8 \times (8 \times 8 + 88)) - 8)/((8 + 8)/8)$
:= $(9 + 9 + 9) \times (99 + 9 \times 9)$
- ▶ 4861 := $((1 + 1) \times (11 \times ((1 + 1) \times 111 - 1))) - 1$
:= $(22 \times 222) - 22 - 2/2$
:= $3/3 + (3 \times 3^3 \times (3^3 + 33))$
:= $4/4 + ((4 \times 4 + 44) \times (4 - 4/4)^4)$
:= $5^5 + (5555 + 5^5)/5$
:= $6 \times 6 + (((6 + 6) \times (6 \times 66 + 6)) + 6/6)$
:= $((77 - 7)/7) + (7 \times ((7 \times 7 \times (7 + 7)) + 7))$
:= $(8 \times 8 - 8) \times (88 - 8/8) - 88/8$
:= $9/9 + (9 + 9 + 9) \times (99 + 9 \times 9)$
- ▶ 4862 := $(1 + 1) \times (11 \times ((1 + 1) \times 111 - 1))$
:= $22 \times (222 - 2/2)$
:= $3 + ((3 \times 3^3 \times (3^3 + 33)) - 3/3)$
:= $44/4 \times (444 - (4 + 4)/4)$
:= $5^5 + (((5555 + 5^5) + 5)/5)$
:= $(6 \times 66 \times (6 + 6)) + (666 - 6)/6$
:= $77/7 + (7 \times ((7 \times 7 \times (7 + 7)) + 7))$
:= $88 \times (8 \times 8 - 8) - (((8 + 8)/8) + 8 \times 8)$
:= $(9 + 9)/9 + (9 + 9 + 9) \times (99 + 9 \times 9)$
- ▶ 4863 := $1 + ((1 + 1) \times (11 \times ((1 + 1) \times 111 - 1)))$
:= $2/2 + (22 \times (222 - 2/2))$
:= $3 + (3 \times 3^3 \times (3^3 + 33))$
:= $4^4 \times (4 \times 4 + 4) - (4/4 + 4^4)$
:= $5^5 + (((5555 + 5^5) + 5) + 5)/5$
:= $666/6 + (6 \times 66 \times (6 + 6))$
:= $(77 + 7)/7 + (7 \times ((7 \times 7 \times (7 + 7)) + 7))$
:= $88 \times (8 \times 8 - 8) - (8/8 + 8 \times 8)$
:= $((9 + 9 + 9)/9) + (9 + 9 + 9) \times (99 + 9 \times 9)$
- ▶ 4864 := $(1 + 1) \times (1 + (11 \times ((1 + 1) \times 111 - 1)))$
:= $2 + (22 \times (222 - 2/2))$
:= $3 + ((3 \times 3^3 \times (3^3 + 33)) + 3/3)$
:= $4 \times (4 \times ((44 + 4^4) + 4))$
:= $5 + (((5 \times 5 - 5) \times ((5 - (5 + 5)/5)^5)) - 5/5)$
:= $((6 + 6)/6)^6 \times (((6 + 6)/6)^6 + 6) + 6$
:= $((7 + 7)/7)^7 \times (7 \times 7 - 77/7)$
:= $8 \times ((8 \times 8 \times 8 + 88) + 8)$
:= $(9/9 + 9 + 9) \times (((9 + 9)/9)^{9-9/9})$
- ▶ 4865 := $1 + ((1 + 1) \times (1 + (11 \times ((1 + 1) \times 111 - 1))))$
:= $2 + ((22 \times (222 - 2/2)) + 2/2)$
:= $3 + (((3 \times 3^3 \times (3^3 + 33)) - 3/3) + 3)$
:= $4/4 + (4 \times (4 \times ((44 + 4^4) + 4)))$
:= $5 + ((5 \times 5 - 5) \times ((5 - (5 + 5)/5)^5))$
:= $6 + (((6 + 6) \times (6 \times 66 + 6)) - 6/6) + 6 \times 6$
:= $7 + ((7 \times ((7 \times 7 \times (7 + 7)) + 7)) + 7)$
:= $8/8 + (8 \times ((8 \times 8 \times 8 + 88) + 8))$
:= $((9 \times 9 + 9)/(9 + 9)) \times (9 \times (99 + 9) + 9/9)$
- ▶ 4866 := $(1 + 1) \times (1 + (1 + (11 \times ((1 + 1) \times 111 - 1))))$
:= $2 + ((22 \times (222 - 2/2)) + 2)$
:= $3 + ((3 \times 3^3 \times (3^3 + 33)) + 3)$
:= $4 + (44/4 \times (444 - (4 + 4)/4))$
:= $5 + ((5555 + 5^5)/5 + 5^5)$
:= $6 + (((6 + 6) \times (6 \times 66 + 6)) + 6 \times 6)$
:= $7 + (((7 \times ((7 \times 7 \times (7 + 7)) + 7)) + 7/7) + 7)$
:= $(8 + 8)/8 + (8 \times ((8 \times 8 \times 8 + 88) + 8))$
:= $(9 - ((9 + 9 + 9)/9)) \times (9 \times (9 \times 9 + 9) + 9/9)$
- ▶ 4867 := $1 + ((1 + 1) \times (1 + (1 + (11 \times ((1 + 1) \times 111 - 1))))))$
:= $(22 \times 222) - (2^{2+2} + 2/2)$
:= $3 + (((3 \times 3^3 \times (3^3 + 33)) + 3/3) + 3)$
:= $4 + (4^4 \times (4 \times 4 + 4) - (4/4 + 4^4))$
:= $5 + (((5555 + 5^5) + 5)/5) + 5^5$
:= $6 + (((6 + 6) \times (6 \times 66 + 6)) + 6 \times 6) + 6/6$
:= $7 + (((7 + 7)/7 + 7) \times (7 \times 77 + 7/7))$
:= $((8/8 + 8 \times 8) \times (88/8 + 8 \times 8)) - 8$
:= $9 + ((9 + 9 + 9) \times (99 + 9 \times 9) - ((9 + 9)/9))$

- 4868 := $(1+1) \times (1+(1+(1+(11 \times ((1+1) \times 111-1)))))$
:= $(22 \times 222) - 2^{2+2}$
:= $(3 \times (3^3 \times (3^3 + 33) + 3)) - 3/3$
:= $4 + (4 \times (4 \times ((44 + 4^4) + 4))$
:= $(5 \times (((5-5/5)^5 - 55) + 5)) - (5+5)/5$
:= $6 + ((6 \times 66 \times (6+6)) + ((666-6)/6))$
:= $77 + (7 \times 7 \times 7 \times (7+7) - (77/7))$
:= $((8 \times 8 \times (8 \times 8 + 88)) + 8) / ((8+8)/8)$
:= $9 + ((9+9+9) \times (99+9 \times 9) - 9/9)$
- 4869 := $((1+1) \times ((1+1) \times (11 \times 111-1))) - 11$
:= $2/2 + ((22 \times 222) - 2^{2+2})$
:= $3 \times (3^3 \times (3^3 + 33) + 3)$
:= $((4 \times 4 + 4/4)^{4-4/4}) - 44$
:= $(5 \times (((5-5/5)^5 - 55) + 5)) - 5/5$
:= $6 + ((6 \times 66 \times (6+6)) + 666/6)$
:= $7 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) + (77/7))$
:= $8 + ((8 \times 8 - 8) \times (88 - 8/8) - (88/8))$
:= $9 + (9+9+9) \times (99+9 \times 9)$
- 4870 := $(11-1) \times (1+(1+(1+((11+11)^{1+1}))))$
:= $2 + ((22 \times 222) - 2^{2+2})$
:= $3/3 + (3 \times (3^3 \times (3^3 + 33) + 3))$
:= $4 + ((44/4 \times (444 - (4+4)/4)) + 4)$
:= $5 \times (((5-5/5)^5 - 55) + 5)$
:= $6 + ((6 \times 66 \times (6+6)) + (666+6)/6)$
:= $7 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) + (77+7)/7)$
:= $(8 \times 8 - 8) \times (88 - 8/8) - (8+8)/8$
:= $9 + ((9+9+9) \times (99+9 \times 9) + 9/9)$
- 4871 := $(11 \times (((1+1) \times (1+1) \times 111) - 1)) - 1 - 1$
:= $(22 \times 222) - (22/2 + 2)$
:= $33/3 + (3 \times 3^3 \times (3^3 + 33))$
:= $((4+4) \times ((4/4+4)^4 - 4 \times 4)) - 4/4$
:= $5/5 + (5 \times (((5-5/5)^5 - 55) + 5))$
:= $6 \times 6 + (((6+6) \times (6 \times 66 + 6)) + (66/6))$
:= $7 + (((7+7)/7)^7 \times (7 \times 7 - 77/7))$
:= $(8 \times 8 - 8) \times (88 - 8/8) - 8/8$
:= $99/9 + (9+9+9) \times (99+9 \times 9)$
- 4872 := $(11 \times (((1+1) \times (1+1) \times 111) - 1)) - 1$
:= $(22 \times 222) - (2 \times (2+2+2))$
:= $3 + (3 \times (3^3 \times (3^3 + 33) + 3))$
:= $(4+4) \times ((4/4+4)^4 - 4 \times 4)$
:= $(55+5/5) \times (((5+5)/5)^5 + 55)$
:= $(6+6) \times (((66-6)/6) + 6 \times 66)$
:= $77 + (7 \times 7 \times 7 \times (7+7) - 7)$
:= $(8 \times 8 - 8) \times (88 - 8/8)$
:= $(9-9/9) \times (9 \times 9 \times 9 - (999/9+9))$
- 4873 := $11 \times (((1+1) \times (1+1) \times 111) - 1)$
:= $(22 \times 222) - 22/2$
:= $3 + ((3 \times (3^3 \times (3^3 + 33) + 3)) + 3/3)$
:= $44/4 \times (444 - 4/4)$
:= $5^5 + (5^5 - (5 \times 5 \times 55 + ((5+5)/5)))$
:= $66/6 \times ((6 \times (66+6)) + (66/6))$
:= $7/7 + ((7 \times 7 \times 7 \times (7+7) - 7) + 77)$
:= $8/8 + (8 \times 8 - 8) \times (88 - 8/8)$
:= $9 + ((9/9+9+9) \times (((9+9)/9)^{9-9/9}))$
- 4874 := $1 + (11 \times (((1+1) \times (1+1) \times 111) - 1))$
:= $((2-22)/2) + (22 \times 222)$
:= $(33/3 + 3 + 3)^3 - (33 + 3 + 3)$
:= $4/4 + (44/4 \times (444 - 4/4))$
:= $5^5 + (5^5 - (5 \times 5 \times 55 + 5/5))$
:= $(6 \times 66 \times (6+6)) + ((666+66)/6)$
:= $7 + (((7+7)/7+7) \times (7 \times 77 + 7/7)) + 7$
:= $(8+8)/8 + (8 \times 8 - 8) \times (88 - 8/8)$
:= $9 + (((9 \times 9 + 9)/(9+9)) \times (9 \times (99+9) + 9/9))$
- 4875 := $1 + (1 + (11 \times (((1+1) \times (1+1) \times 111) - 1)))$
:= $2 + ((22 \times 222) - 22/2)$
:= $(33 + 3 + 3) \times (3 - 3/3 + 3)^3$
:= $(4^4 + 4)/4 \times (44 + 4^4)/4$
:= $5 \times (5 \times (5 \times 5 \times (5+5) - 55))$
:= $(6/6 - 66) \times (6 \times 6 - 666/6)$
:= $7 + ((7 \times 7 \times 7 \times (7+7) - (77/7)) + 77)$
:= $(8/8 + 8 \times 8) \times (88/8 + 8 \times 8)$
:= $9 + ((9 - ((9+9+9)/9)) \times (9 \times (9 \times 9 + 9) + 9/9))$
- 4876 := $(1+1) \times ((1+1) \times (11 \times 111 - (1+1)))$
:= $(22 \times 222) - 2 \times (2+2)$
:= $3/3 + ((33+3+3) \times (3-3/3+3)^3)$
:= $(44 \times 444/4) - 4 - 4$
:= $5^5 + ((5^5 - 5 \times 5 \times 55) + 5/5)$
:= $66 \times (6+6) + (((6+6)/6)^{6+6}) - (6+6)$
:= $7 + (((7 \times ((7 \times 7 \times (7+7)) + 7)) + (77/7)) + 7)$
:= $(88/8 \times 888 / ((8+8)/8)) - 8$
:= $9 + (((9+9+9) \times (99+9 \times 9) - ((9+9)/9)) + 9)$
- 4877 := $1 + ((1+1) \times ((1+1) \times (11 \times 111 - (1+1))))$
:= $2 + (((22 \times 222) - 22/2) + 2)$
:= $(33/3 + 3 + 3)^3 - (33 + 3)$
:= $4 + (44/4 \times (444 - 4/4))$
:= $(5 \times (5 - 5/5)^5) - ((5 - (5+5)/5)^5)$
:= $((66/6 + 6)^{6 \times 6 / (6+6)}) - 6 \times 6$
:= $77 + (7 \times 7 \times 7 \times (7+7) - ((7+7)/7))$
:= $88 + (8 \times (8 \times 8 \times 8 + 88) - (88/8))$
:= $9 + (((9+9+9) \times (99+9 \times 9) - 9/9) + 9)$
- 4878 := $(1+1) \times (((1+1) \times (11 \times 111 - 1)) - 1)$
:= $(22 \times 222) - 2 - 2 - 2$
:= $(3+3) \times ((3^3 \times (3^3 + 3)) + 3)$
:= $(44 \times 444/4) - ((4+4)/4 + 4)$
:= $5 + ((5^5 - (5 \times 5 \times 55 + ((5+5)/5))) + 5^5)$
:= $666 + (6 \times (666 + 6 \times 6))$
:= $77 + (7 \times 7 \times 7 \times (7+7) - 7/7)$
:= $8 + ((8 \times 8 - 8) \times (88 - 8/8) - ((8+8)/8))$
:= $9 + ((9+9+9) \times (99+9 \times 9) + 9)$
- 4879 := $((1+1) \times ((1+1) \times (11 \times 111 - 1))) - 1$
:= $(22 \times 222) - 2/2 - 2 - 2$
:= $3/3 + ((3+3) \times ((3^3 \times (3^3 + 3)) + 3))$
:= $(44 \times 444/4) - 4/4 - 4$
:= $(555/5 \times (55 - (55/5))) - 5$
:= $6 + ((66/6) \times ((6 \times (66+6)) + (66/6)))$
:= $77 + 7 \times 7 \times 7 \times (7+7)$
:= $(8 - 8/8) \times ((8 \times 88 - 8) + 8/8)$
:= $((9-9/9) \times (((9+9)/9)^9 + 99)) - 9$
- 4880 := $(1+1) \times ((1+1) \times (11 \times 111 - 1))$
:= $(22 \times 222) - 2 - 2$
:= $(33/3 + 3 + 3)^3 - 33$
:= $(44 \times 444/4) - 4$
:= $5 + ((5^5 - 5 \times 5 \times 55) + 5^5)$
:= $((6+6)/6) \times (6 \times 6 \times 66 + ((6+6)/6)^6)$
:= $7/7 + (7 \times 7 \times 7 \times (7+7) + 77)$
:= $8 + (8 \times 8 - 8) \times (88 - 8/8)$
:= $(99/9 + 9) \times (9 \times (9+9+9) + 9/9)$
- 4881 := $1 + ((1+1) \times ((1+1) \times (11 \times 111 - 1)))$
:= $(22 \times 222) - 2/2 - 2$
:= $3 + ((3+3) \times ((3^3 \times (3^3 + 3)) + 3))$
:= $4/4 + ((44 \times 444/4) - 4)$
:= $5 + (((5^5 - 5 \times 5 \times 55) + 5^5) + 5/5)$
:= $6 + ((6/6 - 66) \times (6 \times 6 - 666/6))$
:= $77 + (7 \times 7 \times 7 \times (7+7) + ((7+7)/7))$
:= $8 + ((8 \times 8 - 8) \times (88 - 8/8) + 8/8)$
:= $999/9 + 9 \times (((9+9)/9)^9 + 9+9)$
- 4882 := $(1+1) \times (((1+1) \times 11 \times 111) - 1)$
:= $(22 \times 222) - 2$
:= $3 + (((3+3) \times ((3^3 \times (3^3 + 3)) + 3)) + 3/3)$
:= $(44 \times 444/4) - (4+4)/4$
:= $5 + ((5 \times (5 - 5/5)^5) - ((5 - (5+5)/5)^5))$
:= $66 \times (6+6) + (((6+6)/6)^{6+6}) - 6$
:= $(7 \times (777 - 77)) - (77/7 + 7)$
:= $8 + ((8 \times 8 - 8) \times (88 - 8/8) + ((8+8)/8))$
:= $((9 \times 9 - 99/9)^{(9+9)/9}) - (9+9)$

$$\begin{aligned}
\blacktriangleright 4883 &:= ((1+1) \times ((1+1) \times 11 \times 111)) - 1 \\
&:= (22 \times 222) - 2/2 \\
&:= 3 + ((33/3 + 3 + 3)^3 - 33) \\
&:= (44 \times 444/4) - 4/4 \\
&:= 5^5 + ((55 \times ((5+5)/5)^5) - ((5+5)/5)) \\
&:= (66 \times (((6+6)/6) + 66) + 6) - 6/6 \\
&:= 7 \times 7 \times 77 + (7777 - 7)/7 \\
&:= 8 + ((8/8 + 8 \times 8) \times (88/8 + 8 \times 8)) \\
&:= ((99 \times 99 + 9/9)/((9+9)/9)) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4884 &:= (1+1) \times ((1+1) \times 11 \times 111) \\
&:= 22 \times 222 \\
&:= 3 \times ((33/3)^3 + 3 \times 3 \times 33) \\
&:= 44 \times 444/4 \\
&:= 555/5 \times (55 - (55/5)) \\
&:= 66 \times (((6+6)/6) + 66) + 6 \\
&:= 7 \times 7 \times 77 + 7777/7 \\
&:= 88/8 \times 888/((8+8)/8) \\
&:= 99/9 \times (999 \times (9 - 9/9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4885 &:= 1 + ((1+1) \times ((1+1) \times 11 \times 111)) \\
&:= 2/2 + (22 \times 222) \\
&:= (33/3 + 3 + 3)^3 - (3^3 + 3/3) \\
&:= 4/4 + (44 \times 444/4) \\
&:= 5^5 + (55 \times ((5+5)/5)^5) \\
&:= 6/6 + (66 \times (((6+6)/6) + 66) + 6) \\
&:= 7 + ((7 \times 7 \times 7 \times (7+7) - 7/7) + 77) \\
&:= 8/8 + (88/8 \times 888/((8+8)/8)) \\
&:= (9 \times (99 \times 99 - 9)/(9+9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4886 &:= (1+1) \times (1 + ((1+1) \times 11 \times 111)) \\
&:= 2 + (22 \times 222) \\
&:= (33/3 + 3 + 3)^3 - 3^3 \\
&:= (4+4)/4 + (44 \times 444/4) \\
&:= 5^5 + ((55 \times ((5+5)/5)^5) + 5/5) \\
&:= (6+6)/6 + (66 \times (((6+6)/6) + 66) + 6) \\
&:= 7 + (7 \times 7 \times 7 \times (7+7) + 77) \\
&:= (8 - 8/8) \times (((8+8)/8) - 8) + 8 \times 88 \\
&:= (((9+9)/9)^9) + 9 \times (9+9) \times (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4887 &:= 1 + ((1+1) \times (1 + ((1+1) \times 11 \times 111))) \\
&:= 2 + ((22 \times 222) + 2/2) \\
&:= 3 \times ((3 \times 3 + 3)^3 - 3 \times 33) \\
&:= 4 + ((44 \times 444/4) - 4/4) \\
&:= 5^5 + ((55 \times ((5+5)/5)^5) + ((5+5)/5)) \\
&:= 66 \times (6+6) + (((6+6)/6)^{6+6}) - 6/6 \\
&:= 7 + ((7 \times 7 \times 7 \times (7+7) + 77) + 7/7) \\
&:= 8 + ((8 - 8/8) \times ((8 \times 88 - 8) + 8/8)) \\
&:= (9+9+9) \times ((9/9+99) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4888 &:= (1+1) \times ((1+1) \times (1 + 11 \times 111)) \\
&:= 2 + ((22 \times 222) + 2) \\
&:= 3/3 + (3 \times ((3 \times 3 + 3)^3 - 3 \times 33)) \\
&:= 4 + (44 \times 444/4) \\
&:= (5+5)/5 \times (5^5 - ((5^5 + 5)/5 + 55)) \\
&:= 66 \times (6+6) + (((6+6)/6)^{6+6}) \\
&:= (7 \times 7 - (7+7)/7) \times (777/7 - 7) \\
&:= 88 + 8 \times (8 \times 8 \times 8 + 88) \\
&:= (9 - 9/9) \times (((9+9)/9)^9) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4889 &:= 1 + ((1+1) \times ((1+1) \times (1 + 11 \times 111))) \\
&:= 2 + (((22 \times 222) + 2/2) + 2) \\
&:= 3 + ((33/3 + 3 + 3)^3 - 3^3) \\
&:= 4 + ((44 \times 444/4) + 4/4) \\
&:= 5 + (555/5 \times (55 - (55/5))) \\
&:= 66 + (((6+6) \times (6 \times 66 + 6)) - 6/6) \\
&:= (7 \times (777 - 77)) - 77/7 \\
&:= 8/8 + (8 \times (8 \times 8 \times 8 + 88) + 88) \\
&:= 9 + ((99/9 + 9) \times (9 \times (9+9+9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4890 &:= (1+1) \times (1 + ((1+1) \times (1 + 11 \times 111))) \\
&:= 2 + (((22 \times 222) + 2) + 2) \\
&:= 3 + (3 \times ((3 \times 3 + 3)^3 - 3 \times 33)) \\
&:= 4 + ((44 \times 444/4) + (4+4)/4) \\
&:= 5 + ((55 \times ((5+5)/5)^5) + 5^5) \\
&:= 66 + ((6+6) \times (6 \times 66 + 6)) \\
&:= 77 + (7 \times 7 \times 7 \times (7+7) + (77/7)) \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 88) + ((8+8)/8)) \\
&:= (9 \times (9+9) + 9/9) \times (((99+9)/9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4891 &:= 1 + ((1+1) \times (1 + ((1+1) \times (1 + 11 \times 111)))) \\
&:= 2 + (((22 \times 222) + 2/2) + 2) + 2 \\
&:= (((3/3 + 3)^3) + 3) \times (((3+3)^3 + 3)/3) \\
&:= (44/4 \times (444 + 4/4)) - 4 \\
&:= 5 + (((55 \times ((5+5)/5)^5) + 5^5) + 5/5) \\
&:= (66 + 6/6) \times (66 + 6/6 + 6) \\
&:= 7 + (7777/7 + 7 \times 7 \times 77) \\
&:= 8 + (((8/8 + 8 \times 8) \times (88/8 + 8 \times 8)) + 8) \\
&:= ((9 \times 9 - 99/9)^{(9+9)/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4892 &:= (1+1) \times ((1+1) \times (1 + (1 + 11 \times 111))) \\
&:= 2 \times (2+2) + (22 \times 222) \\
&:= 3 + (((33/3 + 3 + 3)^3 - 3^3) + 3) \\
&:= 4 + ((44 \times 444/4) + 4) \\
&:= (5+5)/5 \times (((5 - 5^5)/5) - 55) + 5^5 \\
&:= 66 + (((6+6) \times (6 \times 66 + 6)) + ((6+6)/6)) \\
&:= (7 \times (777 - 77)) - (7/7 + 7) \\
&:= 8 + (88/8 \times 888/((8+8)/8)) \\
&:= ((99 \times 99 + 9/9)/((9+9)/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4893 &:= 1 + ((1+1) \times ((1+1) \times (1 + (1 + 11 \times 111)))) \\
&:= 22/2 + ((22 \times 222) - 2) \\
&:= 33 + (3 \times 3^3 \times (3^3 + 33)) \\
&:= 4 + (((44 \times 444/4) + 4/4) + 4) \\
&:= 5 + ((5+5)/5 \times (5^5 - ((5^5 + 5)/5 + 55))) \\
&:= (6/6 + 6) \times (((6 \times 6/(6+6))^6) - 6 \times 6) + 6 \\
&:= (7 \times (777 - 77)) - 7 \\
&:= (8 - 8/8) \times ((88/8 - (8+8)) + 8 \times 88) \\
&:= 9 + ((99/9) \times (999 \times (9 - 9/9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4894 &:= (11 \times (1 + ((1+1) \times (1 + 11 \times 111)))) - 1 \\
&:= 2 + ((22 \times 222) + 2 \times (2+2)) \\
&:= 3 + (((3/3 + 3)^3) + 3) \times (((3+3)^3 + 3)/3) \\
&:= (44 - 4)/4 + (44 \times 444/4) \\
&:= 5 + ((555/5 \times (55 - (55/5))) + 5) \\
&:= (((6+6)/6)^6 + 6)^{(6+6)/6} - 6 \\
&:= 7/7 + ((7 \times (777 - 77)) - 7) \\
&:= 8 + ((8 - 8/8) \times (((8+8)/8) - 8) + 8 \times 88) \\
&:= ((99/9) \times ((9+9)/9)^9) - (9 \times 9 \times 9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4895 &:= 11 \times (1 + ((1+1) \times (1 + 11 \times 111))) \\
&:= 22/2 + (22 \times 222) \\
&:= (33/3 + 3 + 3)^3 - (3 \times (3+3)) \\
&:= 44/4 \times (444 + 4/4) \\
&:= 5 \times (((5 - 5/5)^5 - 55) + 5) + 5 \\
&:= ((6+6) \times (6 \times 66 + 6 + 6)) - 6/6 \\
&:= (7+7)/7 + ((7 \times (777 - 77)) - 7) \\
&:= (8/8 + 88) \times (8 \times 8 - (8/8 + 8)) \\
&:= 99/9 \times ((9 \times 9 \times 99 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4896 &:= 1 + (11 \times (1 + ((1+1) \times (1 + 11 \times 111)))) \\
&:= 2 \times (2^{22/2} + (22 - 2)^2) \\
&:= 3 \times (((3 \times 3 + 3)^3 - 3 \times 33) + 3) \\
&:= 4 + (((44 \times 444/4) + 4) + 4) \\
&:= (5 - 5/5 + 5) \times (555 - (55/5)) \\
&:= (6+6) \times (6 \times 66 + 6 + 6) \\
&:= 7 + ((7 \times (777 - 77)) - (77/7)) \\
&:= 8 + (8 \times (8 \times 8 \times 8 + 88) + 88) \\
&:= 9 \times (99 \times 99 - 9)/(9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4897 &:= 1 + (1 + (11 \times (1 + ((1+1) \times (1 + 11 \times 111)))) \\
&:= 2 + ((22 \times 222) + 22/2) \\
&:= (((((3/3 + 3)^3) + 3) + 3)^{3-3/3}) - 3 \\
&:= ((4 \times 4 + 4/4)^{4-4/4}) - 4 \times 4 \\
&:= 5 + ((5+5)/5 \times (((5 - 5^5)/5) - 55) + 5^5) \\
&:= 6/6 + ((6+6) \times (6 \times 66 + 6 + 6)) \\
&:= (7 \times (777 - 77)) - (7+7+7)/7 \\
&:= ((8/8 + 8 + 8)^{88/8-8}) - 8 - 8 \\
&:= 9 + ((9 - 9/9) \times (((9+9)/9)^9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4898 &:= (((11-1-1)^{1+1} - 11)^{1+1}) - 1 - 1 \\
&:= (((2 \times (22+2)) + 22)^2) - 2 \\
&:= 3 + ((33/3 + 3 + 3)^3 - (3 \times (3+3))) \\
&:= 4 + ((44 \times 444/4) + (44-4)/4) \\
&:= 5^5 + (((5+5)/5)^{55/5}) - 5 \times 55 \\
&:= (6+6)/6 + ((6+6) \times (6 \times 66 + 6 + 6)) \\
&:= (7 \times (777-77)) - (7+7)/7 \\
&:= ((8/8-88) + 8) \times (((8+8)/8) - 8 \times 8) \\
&:= (9+9)/9 + (9 \times (99 \times 99 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4899 &:= (((11-1-1)^{1+1} - 11)^{1+1}) - 1 \\
&:= (((2 \times (22+2)) + 22)^2) - 2/2 \\
&:= (3 - (3+3)^3) \times ((3/3 - 3^3) + 3) \\
&:= 4 + (44/4 \times (444+4/4)) \\
&:= ((5 \times 5 - 5) \times (5 \times 5 \times (5+5) - 5)) - 5/5 \\
&:= 666/6 + (6 \times (66 \times (6+6) + 6)) \\
&:= (7 \times (777-77)) - 7/7 \\
&:= 88 + (8 \times (8 \times 8 \times 8 + 88) + (88/8)) \\
&:= ((9 \times 9 - 99/9)^{(9+9)/9}) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4900 &:= ((11-1-1)^{1+1} - 11)^{1+1} \\
&:= ((2 \times (22+2)) + 22)^2 \\
&:= (((3/3+3)^3 + 3) + 3)^{3-3/3} \\
&:= 4 \times 4 + (44 \times 444/4) \\
&:= (5 \times 5 - 5) \times (5 \times 5 \times (5+5) - 5) \\
&:= (((6+6)/6)^6 + 6)^{(6+6)/6} \\
&:= 7 \times (777-77) \\
&:= ((8 \times 8 - ((8+8)/8)) + 8)^{(8+8)/8} \\
&:= (9 \times 9 - 99/9)^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4901 &:= 1 + (((11-1-1)^{1+1} - 11)^{1+1}) \\
&:= 2/2 + (((2 \times (22+2)) + 22)^2) \\
&:= (33/3 + 3 + 3)^3 - (3 \times 3 + 3) \\
&:= 4 + (((4 \times 4 + 4/4)^{4-4/4}) - 4 \times 4) \\
&:= 5^5 + ((55/5 + 5) \times 555/5) \\
&:= 6 + (((6+6) \times (6 \times 66 + 6 + 6)) - 6/6) \\
&:= 7/7 + (7 \times (777-77)) \\
&:= 88 \times (8 \times 8 - 8) - (88/8 + 8 + 8) \\
&:= (99 \times 99 + 9/9)/(9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4902 &:= 1 + (1 + (((11-1-1)^{1+1} - 11)^{1+1})) \\
&:= 2 + (((2 \times (22+2)) + 22)^2) \\
&:= (33/3 + 3 + 3)^3 - 33/3 \\
&:= (44 - 4/4) \times ((444 - 4)/4 + 4) \\
&:= 5^5 + ((555 \times (55/5 + 5) + 5)/5) \\
&:= 6 + ((6+6) \times (6 \times 66 + 6 + 6)) \\
&:= (7+7)/7 + (7 \times (777-77)) \\
&:= ((8/8-8) + 8 \times 8) \times (88 - ((8+8)/8)) \\
&:= 9/9 + ((99 \times 99 + 9/9)/(9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4903 &:= ((1+1) \times ((11 \times (1 + (1+1) \times 111)) - 1)) - 1 \\
&:= 2 + (((2 \times (22+2)) + 22)^2) + 2/2 \\
&:= 3 + (((3/3+3)^3 + 3) + 3)^{3-3/3} \\
&:= 4 + ((44/4 \times (444+4/4)) + 4) \\
&:= 5555 - ((5^5 + 5 + 5)/5 + 5 \times 5) \\
&:= 6 + (((6+6) \times (6 \times 66 + 6 + 6)) + 6/6) \\
&:= (7+7+7)/7 + (7 \times (777-77)) \\
&:= 8 + ((8/8+88) \times (8 \times 8 - (8/8+8))) \\
&:= ((99/9) \times ((9+9)/9)^9) - 9 \times 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4904 &:= (1+1) \times ((11 \times (1 + (1+1) \times 111)) - 1) \\
&:= 22 + ((22 \times 222) - 2) \\
&:= (33/3 + 3 + 3)^3 - 3 \times 3 \\
&:= 4 + ((44 \times 444/4) + 4 \times 4) \\
&:= 5555 - ((5^5 + 5)/5 + 5 \times 5) \\
&:= 6 + (((6+6) \times (6 \times 66 + 6 + 6)) + ((6+6)/6)) \\
&:= 77/7 + ((7 \times (777-77)) - 7) \\
&:= 88 \times (8 \times 8 - 8) - 8 - 8 - 8 \\
&:= (((9-9/9) + 9)^{(9+9+9)/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4905 &:= ((1+1) \times (11 \times (1 + (1+1) \times 111))) - 1 \\
&:= 22 + ((22 \times 222) - 2/2) \\
&:= 3 \times (3 \times (((3-3/3)^{3 \times 3} + 33)) \\
&:= ((4 \times 4 + 4/4)^{4-4/4}) - 4 - 4 \\
&:= 5 + ((5 \times 5 - 5) \times (5 \times 5 \times (5+5) - 5)) \\
&:= 6 + ((6 \times (66 \times (6+6) + 6)) + 666/6) \\
&:= 7 + ((7 \times (777-77)) - ((7+7)/7)) \\
&:= ((8/8+8+8)^{88/8-8}) - 8 \\
&:= 9 \times ((99 \times 99 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4906 &:= (1+1) \times (11 \times (1 + (1+1) \times 111)) \\
&:= 22 + (22 \times 222) \\
&:= (3^3 \times (3^3 + 3)) + (3/3 + 3)^{3+3} \\
&:= 44/4 \times (444 + (4+4)/4) \\
&:= 5555 + (((5-5^5)/5) - 5 \times 5) \\
&:= 6 + (((6+6)/6)^6 + 6)^{(6+6)/6} \\
&:= 7 + ((7 \times (777-77)) - 7/7) \\
&:= 88/8 \times (8 \times (8 \times 8 - 8) - ((8+8)/8)) \\
&:= 9/9 + (9 \times ((99 \times 99 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4907 &:= 1 + ((1+1) \times (11 \times (1 + (1+1) \times 111))) \\
&:= 22 + ((22 \times 222) + 2/2) \\
&:= (33/3 + 3 + 3)^3 - 3 - 3 \\
&:= 4 + (((44/4 \times (444 + 4/4)) + 4) + 4) \\
&:= 5555 + (((5-5^5) + 5)/5) - 5 \times 5 \\
&:= (((66/6 + 6)^{6 \times 6/(6+6)}) - 6) \\
&:= 7 + (7 \times (777-77)) \\
&:= (8-8/8) \times ((8 \times 88 - (88/8)) + 8) \\
&:= (9+9)/9 + (9 \times ((99 \times 99 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4908 &:= (1+1) \times (1 + (11 \times (1 + (1+1) \times 111))) \\
&:= 2 + ((22 \times 222) + 22) \\
&:= (3^3 \times ((3+3)^3 - 33)) - 33 \\
&:= 44 + (4 \times (4 \times ((44+4^4) + 4))) \\
&:= (((55+5)/5) + 5)^{5-(5+5)/5} - 5 \\
&:= 6 + (((6+6) \times (6 \times 66 + 6 + 6)) + 6) \\
&:= 7 + ((7 \times (777-77)) + 7/7) \\
&:= 8 + (((8 \times 8 - ((8+8)/8)) + 8)^{(8+8)/8}) \\
&:= 9 + (((9 \times 9 - 99/9)^{(9+9)/9}) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4909 &:= 1 + ((1+1) \times (1 + (11 \times (1 + (1+1) \times 111)))) \\
&:= 2 + (((22 \times 222) + 22) + 2/2) \\
&:= (33/3 + 3 + 3)^3 - (3/3 + 3) \\
&:= ((4 \times 4 + 4/4)^{4-4/4}) - 4 \\
&:= 5 + (5555 - ((5^5 + 5)/5 + 5 \times 5)) \\
&:= 6 + (((6+6) \times (6 \times 66 + 6 + 6)) + 6/6) + 6 \\
&:= 7 + ((7 \times (777-77)) + ((7+7)/7)) \\
&:= 88 \times (8 \times 8 - 8) - (88/8 + 8) \\
&:= 9 + ((9 \times 9 - 99/9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4910 &:= (1+1) \times (1 + (1 + (11 \times (1 + (1+1) \times 111)))) \\
&:= 2 + (((22 \times 222) + 22) + 2) \\
&:= (33/3 + 3 + 3)^3 - 3 \\
&:= 4 + (44/4 \times (444 + (4+4)/4)) \\
&:= 5 + (((5 \times 5 - 5) \times (5 \times 5 \times (5+5) - 5)) + 5) \\
&:= 6 + (((6+6) \times (6 \times 66 + 6 + 6)) + ((6+6)/6) + 6) \\
&:= ((77-7)/7) + (7 \times (777-77)) \\
&:= (8-88)/8 + (88 \times (8 \times 8 - 8) - 8) \\
&:= 9 + ((99 \times 99 + 9/9)/(9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4911 &:= 11 + (((11-1-1)^{1+1} - 11)^{1+1}) \\
&:= ((2^{2+2} + 2/2)^{2/2+2}) - 2 \\
&:= 3/3 + ((33/3 + 3 + 3)^3 - 3) \\
&:= 4 \times 4 + (44/4 \times (444 + 4/4)) \\
&:= 5 + (((5-5^5)/5) - 5 \times 5) + 5555 \\
&:= 666 + (66 \times 66 - 666/6) \\
&:= 77/7 + (7 \times (777-77)) \\
&:= 88 \times (8 \times 8 - 8) - (8/8 + 8 + 8) \\
&:= 99/9 + ((9 \times 9 - 99/9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4912 &:= ((1 + (1+1))^{1+1+1+1})^{1+1+1} - 1 \\
&:= (22 \times (222+2)) - 2^{2+2} \\
&:= (33/3 + 3 + 3)^3 - 3/3 \\
&:= 4 \times (44 \times (44 - 4 \times 4) - 4) \\
&:= (55/5 + 5) \times (5^5 - 55)/(5+5) \\
&:= 6 + (((6+6)/6)^6 + 6)^{(6+6)/6} + 6 \\
&:= (77+7)/7 + (7 \times (777-77)) \\
&:= 88 \times (8 \times 8 - 8) - 8 - 8 \\
&:= (((9-9/9) + 9)^{(9+9+9)/9}) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4913 &:= (1 + (1 + 1)^{1+1+1})^{1+1+1} \\
&:= (2^{2+2} + 2/2)^{2/2+2} \\
&:= ((33/3 + 3) + 3)^3 \\
&:= (4 \times 4 + 4/4)^{4-4/4} \\
&:= (((55 + 5)/5) + 5)^{5-(5+5)/5} \\
&:= (66/6 + 6)^{6 \times 6/(6+6)} \\
&:= 777/7 + 7 \times 7 \times 7 \times (7 + 7) \\
&:= (8/8 + 8 + 8)^{88/8-8} \\
&:= ((9 - 9/9) + 9)^{(9+9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4914 &:= 1 + ((1 + (1 + 1)^{1+1+1})^{1+1+1}) \\
&:= 2 + ((22 \times (222 + 2)) - 2^{2+2}) \\
&:= 3/3 + (33/3 + 3 + 3)^3 \\
&:= 4/4 + ((4 \times 4 + 4/4)^{4-4/4}) \\
&:= 5555 - (((55 + 5^5)/5) + 5) \\
&:= (6/6 + 6) \times (666 + 6 \times 6) \\
&:= 7 + ((7 \times (777 - 77)) + 7) \\
&:= (8 - 8/8) \times (8 \times 88 - ((8 + 8)/8)) \\
&:= 9 + (9 \times ((99 \times 99 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4915 &:= 1 + (1 + ((1 + (1 + 1)^{1+1+1})^{1+1+1})) \\
&:= 2 + ((2^{2+2} + 2/2)^{2/2+2}) \\
&:= 3 + ((33/3 + 3 + 3)^3 - 3/3) \\
&:= (4 + 4)/4 + ((4 \times 4 + 4/4)^{4-4/4}) \\
&:= 55 + ((5 \times 5 - 5) \times ((5 - (5 + 5)/5)^5)) \\
&:= 6/6 + ((6/6 + 6) \times (666 + 6 \times 6)) \\
&:= 7 + (((7 \times (777 - 77)) + 7/7) + 7) \\
&:= 88 \times (8 \times 8 - 8) - (88 + 8 + 8)/8 \\
&:= 9 + ((9 \times ((99 \times 99 + 9)/(9 + 9))) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4916 &:= (11 \times (1 + ((1 + 1) \times (1 + (1 + 1) \times 111)))) - 1 \\
&:= (2 \times 2^{2+2}) + (22 \times 222) \\
&:= 3 + (33/3 + 3 + 3)^3 \\
&:= 4 + (4 \times (44 \times (44 - 4 \times 4) - 4)) \\
&:= 55 + ((5555 + 5^5)/5 + 5^5) \\
&:= (6 + 6)/6 + ((6/6 + 6) \times (666 + 6 \times 6)) \\
&:= 7 + (((7 \times (777 - 77)) + ((7 + 7)/7)) + 7) \\
&:= 88 \times (8 \times 8 - 8) - (88 + 8)/8 \\
&:= 99/9 + (9 \times ((99 \times 99 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4917 &:= 11 \times (1 + ((1 + 1) \times (1 + (1 + 1) \times 111))) \\
&:= (22 \times (222 + 2)) - 22/2 \\
&:= 3 + ((33/3 + 3 + 3)^3 + 3/3) \\
&:= 4 + ((4 \times 4 + 4/4)^{4-4/4}) \\
&:= 5^5 + (((5 + 5)/5)^5 \times (55 + 5/5)) \\
&:= 6 + (((((6 + 6)/6)^6 + 6)^{(6+6)/6}) + (66/6)) \\
&:= 7 + ((7 \times (777 - 77)) + ((77 - 7)/7)) \\
&:= 88 \times (8 \times 8 - 8) - 88/8 \\
&:= 9 + (((9 \times 9 - 99/9)^{(9+9)/9}) - 9/9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4918 &:= 1 + (11 \times (1 + ((1 + 1) \times (1 + (1 + 1) \times 111)))) \\
&:= 2 + ((22 \times 222) + 2 \times 2^{2+2}) \\
&:= 3 + (((33/3 + 3 + 3)^3 - 3/3) + 3) \\
&:= 4 + (((4 \times 4 + 4/4)^{4-4/4}) + 4/4) \\
&:= 5 + (((55 + 5)/5) + 5)^{5-(5+5)/5} \\
&:= 6 + (((((6 + 6)/6)^6 + 6)^{(6+6)/6}) + 6) + 6) \\
&:= 7 + ((7 \times (777 - 77)) + (77/7)) \\
&:= (8 - 88)/8 + 88 \times (8 \times 8 - 8) \\
&:= 9 + (((9 \times 9 - 99/9)^{(9+9)/9}) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4919 &:= 1 + (1 + (11 \times (1 + ((1 + 1) \times (1 + (1 + 1) \times 111)))) \\
&:= 2 + ((22 \times (222 + 2)) - 22/2) \\
&:= 3 + ((33/3 + 3 + 3)^3 + 3) \\
&:= ((4 + 4) \times (4/4 + 4)^4) - (4 - 4/4)^4 \\
&:= 5555 - ((55 + 5^5)/5) \\
&:= 6 + ((66/6 + 6)^{6 \times 6/(6+6)}) \\
&:= 7 + ((7 \times (777 - 77)) + (77 + 7)/7) \\
&:= 88 \times (8 \times 8 - 8) - (8/8 + 8) \\
&:= 9 + (((99 \times 99 + 9/9)/(9 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4920 &:= (1 + 1) \times ((1 + 1) \times ((11 \times (1 + 111)) - (1 + 1))) \\
&:= 2 \times ((22 - 2) \times ((22/2)^2 + 2)) \\
&:= (3^3 - 3) \times ((3 + 3)^3 - 33/3) \\
&:= (4/4 + 4) \times ((4 \times 4^4 - 44) + 4) \\
&:= 5^5 + ((5 \times 5 + 5) \times (55 + 5) - 5) \\
&:= 6 + ((6/6 + 6) \times (666 + 6 \times 6)) \\
&:= 7 + (7 \times 7 \times 7 \times (7 + 7) + 777/7) \\
&:= 88 \times (8 \times 8 - 8) - 8 \\
&:= (9/9 + 9) \times (((9 + 9)/9)^9) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4921 &:= (1 + (11 \times (1 + 11))) \times (111/(1 + 1 + 1)) \\
&:= 2 + (((22 \times (222 + 2)) - 22/2) + 2) \\
&:= 3 \times 3 + ((33/3 + 3 + 3)^3 - 3/3) \\
&:= 4 + (((4 \times 4 + 4/4)^{4-4/4}) + 4) \\
&:= 5 \times 55 + ((5/5 + 5)^5 - (5^5 + 5)) \\
&:= (6/6 + 6) \times ((666 + 6/6) + 6 \times 6) \\
&:= 7 + (((7 \times (777 - 77)) + 7) + 7) \\
&:= 8/8 + (88 \times (8 \times 8 - 8) - 8) \\
&:= 9 + (((9 - 9/9) + 9)^{(9+9+9)/9}) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4922 &:= (1 + 1) \times (((1 + 1) \times ((11 \times (1 + 111)) - 1)) - 1) \\
&:= 22 + (((2 \times (22 + 2)) + 22)^2) \\
&:= 3 \times 3 + (33/3 + 3 + 3)^3 \\
&:= (444/4 - 4) \times ((4 + 4)/4 + 44) \\
&:= 5 + (((5 + 5)/5)^5 \times (55 + 5/5)) + 5^5 \\
&:= (((6 + 6)/6)^6 \times (66/6 + 66)) - 6 \\
&:= 7 + (((7 \times (777 - 77)) + 7/7) + 7) + 7) \\
&:= (8 + 8)/8 + (88 \times (8 \times 8 - 8) - 8) \\
&:= 9 + (((9 - 9/9) + 9)^{(9+9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4923 &:= ((1 + 1 + 1) \times (1 + 1)^{11}) - 11 \times 111 \\
&:= (22 \times (222 + 2)) - 2/2 - 2 - 2 \\
&:= 3 + ((3^3 - 3) \times ((3 + 3)^3 - 33/3)) \\
&:= (4 \times 44 \times (44 - 4 \times 4)) - 4/4 - 4 \\
&:= 5555 - ((5^5 + 5 + 5)/5 + 5) \\
&:= 66 + (((6 \times 66 \times (6 + 6)) - 6) + 666/6) \\
&:= ((7 + 7)/7)^7 + (7 \times 7 \times 7 \times (7 + 7) - 7) \\
&:= 88/8 + (88 \times (8 \times 8 - 8) - (8 + 8)) \\
&:= 9 \times (((9999 + 9)/(9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4924 &:= (1 + 1) \times ((1 + 1) \times ((11 \times (1 + 111)) - 1)) \\
&:= (22 \times (222 + 2)) - 2 - 2 \\
&:= 33/3 + (33/3 + 3 + 3)^3 \\
&:= (4 \times 44 \times (44 - 4 \times 4)) - 4 \\
&:= 5555 - ((5^5 + 5)/5 + 5) \\
&:= 6 \times 6 + (((6 + 6)/6)^{6+6}) + 66 \times (6 + 6) \\
&:= 7 \times 7 \times 7 \times (7 + 7) + (777 + 77)/7 \\
&:= 88 \times (8 \times 8 - 8) - (8/((8 + 8)/8)) \\
&:= 9/9 + (9 \times (((9999 + 9)/(9 + 9)) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4925 &:= 1 + ((1 + 1) \times ((1 + 1) \times ((11 \times (1 + 111)) - 1))) \\
&:= (22 \times (222 + 2)) - 2/2 - 2 \\
&:= 3 + ((33/3 + 3 + 3)^3 + 3 \times 3) \\
&:= 4 + (((4 \times 4 + 4/4)^{4-4/4}) + 4) + 4) \\
&:= 5^5 + (5 \times 5 + 5) \times (55 + 5) \\
&:= 6 + (((66/6 + 6)^{6 \times 6/(6+6)}) + 6) \\
&:= 7 + (((7 \times (777 - 77)) + (77/7)) + 7) \\
&:= 8 + (88 \times (8 \times 8 - 8) - (88/8)) \\
&:= 9 + ((9 \times ((99 \times 99 + 9)/(9 + 9))) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4926 &:= (1 + 1) \times (((1 + 1) \times (11 \times (1 + 111))) - 1) \\
&:= (22 \times (222 + 2)) - 2 \\
&:= (3 + 3) \times ((3^3 \times (3^3 + 3)) + 33/3) \\
&:= (4 \times 44 \times (44 - 4 \times 4)) - (4 + 4)/4 \\
&:= 5 \times 55 + ((5/5 + 5)^5 - 5^5) \\
&:= (6 \times ((66 \times (6 + 6) - 6) + 6 \times 6)) - 6 \\
&:= 77 + ((7 \times ((7 \times 7 \times (7 + 7)) + 7)) - ((7 + 7)/7)) \\
&:= 88 \times (8 \times 8 - 8) - (8 + 8)/8 \\
&:= (9 - ((9 + 9 + 9)/9)) \times (9 \times (9 \times 9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4927 &:= ((1 + 1) \times ((1 + 1) \times (11 \times (1 + 111)))) - 1 \\
&:= (22 \times (222 + 2)) - 2/2 \\
&:= 3 + ((33/3 + 3 + 3)^3 + 33/3) \\
&:= (4 \times 44 \times (44 - 4 \times 4)) - 4/4 \\
&:= 5555 + (((5 - 5^5) + 5)/5) - 5) \\
&:= 6 + ((6/6 + 6) \times ((666 + 6/6) + 6 \times 6)) \\
&:= 77 + ((7 \times ((7 \times 7 \times (7 + 7)) + 7)) - 7/7) \\
&:= 88 \times (8 \times 8 - 8) - 8/8 \\
&:= 9 + (((9 \times 9 - 99/9)^{(9+9)/9}) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4928 &:= (1+1) \times ((1+1) \times (11 \times (1+111))) \\
&:= 22 \times (222+2) \\
&:= 3 + (((33/3+3+3)^3 + 3 \times 3) + 3) \\
&:= 4 \times 44 \times (44-4 \times 4) \\
&:= 5555 - (5^5 + 5+5)/5 \\
&:= ((6+6)/6)^6 \times (66/6+66) \\
&:= 77 + (7 \times ((7 \times 7 \times (7+7)) + 7)) \\
&:= 88 \times (8 \times 8 - 8) \\
&:= (99 - (99/9)) \times ((999+9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4929 &:= 1 + ((1+1) \times ((1+1) \times (11 \times (1+111)))) \\
&:= 2/2 + (22 \times (222+2)) \\
&:= ((3^3+3/3)+3) \times ((3+3) \times 3^3 - 3) \\
&:= 4 \times 4 + ((4 \times 4 + 4/4)^{4-4/4}) \\
&:= 5555 - (5^5 + 5)/5 \\
&:= 66 + ((6 \times 66 \times (6+6)) + 666/6) \\
&:= 7/7 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) + 77) \\
&:= 8/8 + 88 \times (8 \times 8 - 8) \\
&:= 9 \times (9 \times (9 \times 9 - 9) - 99) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4930 &:= (1+1) \times (1 + ((1+1) \times (11 \times (1+111)))) \\
&:= 2 + (22 \times (222+2)) \\
&:= (3^3 \times ((3+3)^3 - 33)) - 33/3 \\
&:= (4+4)/4 + (4 \times 44 \times (44-4 \times 4)) \\
&:= 5555 - 5^5/5 \\
&:= 6 \times 6 + (((((6+6)/6)^6 + 6)^{(6+6)/6}) - 6) \\
&:= ((7+7)/7)^7 + 7 \times 7 \times 7 \times (7+7) \\
&:= (8+8)/8 + 88 \times (8 \times 8 - 8) \\
&:= 9 \times (9 \times (9 \times 9 - 9) - 99) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4931 &:= 1 + ((1+1) \times (1 + ((1+1) \times (11 \times (1+111)))) \\
&:= 2 + ((22 \times (222+2)) + 2/2) \\
&:= (3 \times (3+3)) + (33/3 + 3+3)^3 \\
&:= 4 + ((4 \times 44 \times (44-4 \times 4)) - 4/4) \\
&:= 5555 + ((5-5^5)/5) \\
&:= (6 \times ((66 \times (6+6) - 6) + 6 \times 6)) - 6/6 \\
&:= 7 \times 7 \times (7 \times 7 + 7) + ((7+7+7)/7)^7 \\
&:= 88/8 + (88 \times (8 \times 8 - 8) - 8) \\
&:= 9 + (((9-9/9) + 9)^{(9+9+9)/9} + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4932 &:= (1+1) \times ((1+1) \times (1 + (11 \times (1+111)))) \\
&:= 2 + ((22 \times (222+2)) + 2) \\
&:= 3 \times ((3 \times 3 + 3)^3 - (3 \times 3^3 + 3)) \\
&:= 4 + (4 \times 44 \times (44-4 \times 4)) \\
&:= 5555 + (((5-5^5) + 5)/5) \\
&:= 6 \times ((66 \times (6+6) - 6) + 6 \times 6) \\
&:= ((7+7)/7 + 7) \times ((7 \times 77 + ((7+7)/7)) + 7) \\
&:= (8/(8+8)/8) + 88 \times (8 \times 8 - 8) \\
&:= 9 \times (9 \times (9 \times 9 - 9) - 99) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4933 &:= 1 + ((1+1) \times ((1+1) \times (1 + (11 \times (1+111)))) \\
&:= 2 + (((22 \times (222+2)) + 2/2) + 2) \\
&:= 3 + ((3^3 \times ((3+3)^3 - 33)) - 33/3) \\
&:= 4 + ((4 \times 44 \times (44-4 \times 4)) + 4/4) \\
&:= 5 + (5555 - (5^5 + 5+5)/5) \\
&:= 6/6 + (6 \times ((66 \times (6+6) - 6) + 6 \times 6)) \\
&:= 7777/7 + (7 \times (7 \times 77 + 7)) \\
&:= 8 + ((88 \times (8 \times 8 - 8) - (88/8)) + 8) \\
&:= 9/9 + (9 \times (9 \times (9 \times 9 - 9) - 99) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4934 &:= (1+1) \times (1 + ((1+1) \times (1 + (11 \times (1+111)))) \\
&:= 2 + (((22 \times (222+2)) + 2) + 2) \\
&:= 3 + ((33/3+3+3)^3 + (3 \times (3+3))) \\
&:= 4 + ((4 \times 44 \times (44-4 \times 4)) + (4+4)/4) \\
&:= 5 + (5555 - (5^5 + 5)/5) \\
&:= 6 + (((6+6)/6)^6 \times (66/6+66)) \\
&:= 7 + (((7 \times ((7 \times 7 \times (7+7)) + 7)) - 7/7) + 77) \\
&:= 8 + (88 \times (8 \times 8 - 8) - ((8+8)/8)) \\
&:= (9+9)/9 + (9 \times (9 \times (9 \times 9 - 9) - 99) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4935 &:= 1 + ((1+1) \times (1 + ((1+1) \times (1 + (11 \times (1+111)))) \\
&:= 22 + ((2^{2+2} + 2/2)^{2/2+2}) \\
&:= (3^3 \times ((3+3)^3 - 33)) - 3 - 3 \\
&:= ((4-4/4) + 4) \times 4 \times 4 \times 44 + 4/4 \\
&:= 5 + (5555 - 5^5/5) \\
&:= 666/6 + ((6+6) \times (6 \times 66 + 6)) \\
&:= 7 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) + 77) \\
&:= 8 + (88 \times (8 \times 8 - 8) - 8/8) \\
&:= ((9-9/9) \times (9 \times 9 \times 9 - 999/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4936 &:= (1+1) \times ((1+1) \times (1 + (1 + (11 \times (1+111)))) \\
&:= 2 \times (2+2) + (22 \times (222+2)) \\
&:= 3^3 + ((33/3+3+3)^3 - (3/3+3)) \\
&:= (4+4) \times ((4/4+4)^4 - (4+4)) \\
&:= 5 + (5555 + ((5-5^5)/5)) \\
&:= 6 \times 6 + (((((6+6)/6)^6 + 6)^{(6+6)/6}) \\
&:= (7/7+7) \times ((7 \times 77 + 7/7) + 77) \\
&:= 8 + 88 \times (8 \times 8 - 8) \\
&:= (9-9/9) \times (9 \times 9 \times 9 - ((999+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4937 &:= 1 + ((1+1) \times ((1+1) \times (1 + (1 + (11 \times (1+111)))) \\
&:= 22/2 + ((22 \times (222+2)) - 2) \\
&:= 3^3 + ((33/3+3+3)^3 - 3) \\
&:= 4/4 + ((4+4) \times ((4/4+4)^4 - (4+4))) \\
&:= 5 + (((5-5^5) + 5)/5) + 5555 \\
&:= 6 + ((6 \times ((66 \times (6+6) - 6) + 6 \times 6)) - 6/6) \\
&:= 7 + (7 \times 7 \times 7 \times (7+7) + ((7+7)/7)^7) \\
&:= 8 + (88 \times (8 \times 8 - 8) + 8/8) \\
&:= 9 + ((99 - (99/9)) \times ((999+9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4938 &:= (11 \times (1 + ((1+1) \times ((1+1) \times (1 + 111)))) - 1 \\
&:= 2 + ((22 \times (222+2)) + 2 \times (2+2)) \\
&:= (3^3 \times ((3+3)^3 - 33)) - 3 \\
&:= (4+4)/4 + ((4+4) \times ((4/4+4)^4 - (4+4))) \\
&:= 5 + ((5555 - (5^5 + 5+5)/5) + 5) \\
&:= 6 + (6 \times ((66 \times (6+6) - 6) + 6 \times 6)) \\
&:= (7 \times ((777 - 77) + 7)) - 77/7 \\
&:= 8 + (88 \times (8 \times 8 - 8) + ((8+8)/8)) \\
&:= 9 \times (9 \times (9 \times 9 - 9) - 99) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4939 &:= 11 \times (1 + ((1+1) \times ((1+1) \times (1 + 111)))) \\
&:= 22/2 + (22 \times (222+2)) \\
&:= 3^3 + ((33/3+3+3)^3 - 3/3) \\
&:= 44/4 \times ((444+4/4) + 4) \\
&:= 5 + ((5555 - (5^5 + 5)/5) + 5) \\
&:= 6 + ((6 \times ((66 \times (6+6) - 6) + 6 \times 6)) + 6/6) \\
&:= 77 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) + (77/7)) \\
&:= 88/8 + 88 \times (8 \times 8 - 8) \\
&:= 9 \times (9 \times (9 \times 9 - 9) - 99) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4940 &:= 1 + (11 \times (1 + ((1+1) \times ((1+1) \times (1 + 111)))) \\
&:= (22-2) \times (((22^2+2)/2+2) + 2) \\
&:= 3^3 + (33/3+3+3)^3 \\
&:= (4^4+4) \times ((44/4+4) + 4) \\
&:= 5 + ((5555 - 5^5/5) + 5) \\
&:= (6/6-66) \times (((6-66)/6) - 66) \\
&:= (7/7-77) \times ((77+7)/7-77) \\
&:= ((88+8)/8) + 88 \times (8 \times 8 - 8) \\
&:= (9/9+9) \times (((9+9)/9)^9) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4941 &:= 1 + (1 + (11 \times (1 + ((1+1) \times ((1+1) \times (1 + 111)))) \\
&:= 2 + ((22 \times (222+2)) + 22/2) \\
&:= 3^3 \times ((3+3)^3 - 33) \\
&:= (4-4/4)^4 \times ((4^4+4)/4-4) \\
&:= 5555 + ((55-5^5)/5) \\
&:= 6 + (((6+6) \times (6 \times 66 + 6)) + 666/6) \\
&:= (7 \times ((777-77) + 7)) - (7/7+7) \\
&:= 88 \times (8 \times 8 - 8) + (88+8+8)/8 \\
&:= 9 \times (9 \times (9 \times 9 - 9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4942 &:= 1 + (1 + (1 + (11 \times (1 + ((1+1) \times ((1+1) \times (1 + 111)))) \\
&:= 2^{2+2} + ((22 \times (222+2)) - 2) \\
&:= 3/3 + (3^3 \times ((3+3)^3 - 33)) \\
&:= 4/4 + ((4-4/4)^4 \times ((4^4+4)/4-4)) \\
&:= 5555 + (((55-5^5) + 5)/5) \\
&:= 6 + (((((6+6)/6)^6 + 6)^{(6+6)/6}) + 6 \times 6) \\
&:= (7 \times ((777-77) + 7)) - 7 \\
&:= (8-8/8) \times (((8+8)/8) + 8 \times 88) \\
&:= 9/9 + 9 \times (9 \times (9 \times 9 - 9) - 99)
\end{aligned}$$

- 4943 := $11 + ((1 + 1) \times ((1 + 1) \times (1 + (11 \times (1 + 111)))))$
:= $2 + (((22 \times (222 + 2)) + 22/2) + 2)$
:= $3 + ((33/3 + 3 + 3)^3 + 3^3)$
:= $4 + (44/4 \times ((444 + 4/4) + 4))$
:= $5555 + (((55 - 5^5) + 5) + 5)/5$
:= $6 \times 6 + (((66/6 + 6)^{6 \times 6/(6+6)} - 6)$
:= $7/7 + ((7 \times ((777 - 77) + 7)) - 7)$
:= $8 + ((88 \times (8 \times 8 - 8) - 8/8) + 8)$
:= $(9 + 9)/9 + 9 \times (9 \times (9 \times 9 - 9) - 99)$
- 4944 := $(1 + 11) \times (1 + (11 + ((1 + 1) \times (11 - 1))^{1+1}))$
:= $2^{2+2} + (22 \times (222 + 2))$
:= $3 + (3^3 \times ((3 + 3)^3 - 33))$
:= $4 \times (44 \times (44 - 4 \times 4) + 4)$
:= $(5/5 + 5) \times (55 \times (5 + 5 + 5) - 5/5)$
:= $(66 \times (666/6 - 6 \times 6)) - 6$
:= $(7 \times 7 - 7/7) \times ((777 - 7)/7 - 7)$
:= $8 + (88 \times (8 \times 8 - 8) + 8)$
:= $(9 - 9/9) \times (9 \times 9 \times 9 - 999/9)$
- 4945 := $(11111 - 11 \times 111)/(1 + 1)$
:= $2/2 + ((22 \times (222 + 2)) + 2^{2+2})$
:= $3 + ((3^3 \times ((3 + 3)^3 - 33)) + 3/3)$
:= $(44 - 4/4) \times (444/4 + 4)$
:= $5 \times ((5 - 5/5)^5 - ((5 \times 5 + 5) + 5))$
:= $((66/6 + 6) + 6) \times (6 \times 6 \times 6 - 6/6)$
:= $7 + ((7 \times ((777 - 77) + 7)) - (77/7))$
:= $8 + ((88 \times (8 \times 8 - 8) + 8/8) + 8)$
:= $((9 \times 9 + 9)/(9 + 9)) \times (999 - (9/9 + 9))$
- 4946 := $1 + ((11111 - 11 \times 111)/(1 + 1))$
:= $2 + ((22 \times (222 + 2)) + 2^{2+2})$
:= $33 + (33/3 + 3 + 3)^3$
:= $((44 + 4/4) \times (444 - 4)/4) - 4$
:= $5 + (((55 - 5^5)/5) + 5555)$
:= $6 + ((6/6 - 66) \times (((6 - 66)/6) - 66))$
:= $(7 \times ((777 - 77) + 7)) - (7 + 7 + 7)/7$
:= $8 + ((88 \times (8 \times 8 - 8) + ((8 + 8)/8)) + 8)$
:= $((9 \times 9 + 9)/(9 + 9)) + 9 \times (9 \times (9 \times 9 - 9) - 99)$
- 4947 := $((1 + 1) \times ((11 \times (1 + ((1 + 1) \times (1 + 111)))) - 1)) - 1$
:= $22 + ((22 \times (222 + 2)) - (2/2 + 2))$
:= $3 + ((3^3 \times ((3 + 3)^3 - 33)) + 3)$
:= $(4 - 4/4) \times ((4/4 + 4)^4 + 4 \times 4^4)$
:= $5 + (((55 - 5^5) + 5)/5) + 5555$
:= $((66 \times ((6 + 6) \times (6 + 6) + 6)) - 6)/((6 + 6)/6)$
:= $((7 + 7)/7 + 7 \times 7) \times (7 \times (7 + 7) - 7/7)$
:= $8 + (88 \times (8 \times 8 - 8) + (88/8))$
:= $((99 + 9)/9 \times (((9 + 9)/9)^9 - 99)) - 9$
- 4948 := $(1 + 1) \times ((11 \times (1 + ((1 + 1) \times (1 + 111)))) - 1)$
:= $22 + ((22 \times (222 + 2)) - 2)$
:= $3 + (((3^3 \times ((3 + 3)^3 - 33)) + 3/3) + 3)$
:= $4 + (4 \times (4^4 - 44) + (4 + 4)^4)$
:= $(5 + 5)/5 \times (5^5 - ((5^5 + 5)/5 + 5 \times 5))$
:= $(66 \times (666/6 - 6 \times 6)) - (6 + 6)/6$
:= $(7 \times ((777 - 77) + 7)) - 7/7$
:= $8 + (88 \times (8 \times 8 - 8) + ((88 + 8)/8))$
:= $9 + (9 \times (9 \times (9 \times 9 - 9) - 99) - ((9 + 9)/9))$
- 4949 := $((1 + 1) \times (11 \times (1 + ((1 + 1) \times (1 + 111)))) - 1)$
:= $22 + ((22 \times (222 + 2)) - 2/2)$
:= $3 + ((33/3 + 3 + 3)^3 + 33)$
:= $4 + ((44 - 4/4) \times (444/4 + 4))$
:= $5555 - ((55 \times 55 + 5)/5)$
:= $6 \times 6 + (((66/6 + 6)^{6 \times 6/(6+6)} - 6)$
:= $7 \times ((777 - 77) + 7)$
:= $(8 - 8/8) \times ((8 \times 88 - 8) + (88/8))$
:= $9 + ((9/9 + 9) \times (((9 + 9)/9)^9 - (9 + 9)))$
- 4950 := $(1 + 1) \times (11 \times (1 + ((1 + 1) \times (1 + 111))))$
:= $22 + (22 \times (222 + 2))$
:= $(3^3 + 3) \times ((3 + 3) \times 3^3 + 3)$
:= $(44 + 4/4) \times (444 - 4)/4$
:= $(5 + 5) \times (55 \times (5 - 5/5 + 5))$
:= $66 \times (666/6 - 6 \times 6)$
:= $7/7 + (7 \times ((777 - 77) + 7))$
:= $8 + ((8 - 8/8) \times (((8 + 8)/8) + 8 \times 88))$
:= $9 + 9 \times (9 \times (9 \times 9 - 9) - 99)$
- 4951 := $1 + ((1 + 1) \times (11 \times (1 + ((1 + 1) \times (1 + 111)))))$
:= $22 + ((22 \times (222 + 2)) + 2/2)$
:= $3/3 + ((3^3 + 3) \times ((3 + 3) \times 3^3 + 3))$
:= $(4 + 4)^4 + (4444/4 - 4^4)$
:= $5/5 + ((5 + 5) \times (55 \times (5 - 5/5 + 5)))$
:= $6/6 + (66 \times (666/6 - 6 \times 6))$
:= $(7 + 7)/7 + (7 \times ((777 - 77) + 7))$
:= $8 + (((88 \times (8 \times 8 - 8) - 8/8) + 8) + 8)$
:= $9 + (9 \times (9 \times (9 \times 9 - 9) - 99) + 9/9)$
- 4952 := $(1 + 1) \times (1 + (11 \times (1 + ((1 + 1) \times (1 + 111)))))$
:= $2 + ((22 \times (222 + 2)) + 22)$
:= $3 + (((33/3 + 3 + 3)^3 + 33) + 3)$
:= $4^4 + ((4444 - 4) + 4^4)$
:= $((5 - (5 + 5)/5) + 5) \times ((5^5 - 5)/5 - 5)$
:= $(6 + 6)/6 + (66 \times (666/6 - 6 \times 6))$
:= $(7 + 7 + 7)/7 + (7 \times ((777 - 77) + 7))$
:= $8 + ((88 \times (8 \times 8 - 8) + 8) + 8)$
:= $99/9 + 9 \times (9 \times (9 \times 9 - 9) - 99)$
- 4953 := $1 + ((1 + 1) \times (1 + (11 \times (1 + ((1 + 1) \times (1 + 111))))))$
:= $2 + (((22 \times (222 + 2)) + 22) + 2/2)$
:= $3 + ((3^3 + 3) \times ((3 + 3) \times 3^3 + 3))$
:= $44 + (((4 \times 4 + 4/4)^{4-4/4}) - 4)$
:= $5 \times 5 + (5555 - (5^5 + 5 + 5)/5)$
:= $((6 \times 6/(6 + 6))^6) + (66 \times ((6 + 6)/6)^6)$
:= $77/7 + ((7 \times ((777 - 77) + 7)) - 7)$
:= $8 + (((88 \times (8 \times 8 - 8) + 8/8) + 8) + 8)$
:= $9 + ((9 - 9/9) \times (9 \times 9 \times 9 - 999/9))$
- 4954 := $(1 + 1) \times (1 + (1 + (11 \times (1 + ((1 + 1) \times (1 + 111))))))$
:= $2 + (((22 \times (222 + 2)) + 22) + 2)$
:= $3 + (((3^3 + 3) \times ((3 + 3) \times 3^3 + 3)) + 3/3)$
:= $4 + ((44 + 4/4) \times (444 - 4)/4)$
:= $5 \times 5 + (5555 - (5^5 + 5)/5)$
:= $66 + (((6 + 6)/6)^{6+6}) + 66 \times (6 + 6)$
:= $7 + (((7 + 7)/7 + 7 \times 7) \times (7 \times (7 + 7) - 7/7))$
:= $8 + (((88 \times (8 \times 8 - 8) + ((8 + 8)/8)) + 8) + 8)$
:= $9 + (((9 \times 9 + 9)/(9 + 9)) \times (999 - (9/9 + 9)))$
- 4955 := $1 + ((1 + 1) \times (1 + (1 + (11 \times (1 + ((1 + 1) \times (1 + 111))))))$
:= $(2222/2) + ((2^{2+2+2} - 2)^2)$
:= $3 \times 3 + ((33/3 + 3 + 3)^3 + 33)$
:= $4^4 + ((4444 - 4/4) + 4^4)$
:= $5 + ((5 + 5) \times (55 \times (5 - 5/5 + 5)))$
:= $6 + (((66/6 + 6)^{6 \times 6/(6+6)} + 6 \times 6)$
:= $7 + ((7 \times ((777 - 77) + 7)) - 7/7)$
:= $8 + ((88 \times (8 \times 8 - 8) + (88/8)) + 8)$
:= $((9 \times 9 + 9)/(9 + 9)) \times ((999 - 9) + 9/9)$
- 4956 := $(111 + ((11 \times (11 - 1 - 1))^{1+1}))/ (1 + 1)$
:= $2 \times (2222 + 2^{2 \times (2+2)})$
:= $3 + (((3^3 + 3) \times ((3 + 3) \times 3^3 + 3)) + 3)$
:= $4^4 + (4444 + 4^4)$
:= $5 \times 5 + (5555 + ((5 - 5^5)/5))$
:= $6 + (66 \times (666/6 - 6 \times 6))$
:= $7 + (7 \times ((777 - 77) + 7))$
:= $8 \times 8 \times 8 + (8888/(8 + 8)/8)$
:= $(99 + 9)/9 \times (((9 + 9)/9)^9 - 99)$
- 4957 := $1 + ((111 + ((11 \times (11 - 1 - 1))^{1+1}))/ (1 + 1))$
:= $2/2 + (2 \times (2222 + 2^{2 \times (2+2)}))$
:= $33 + ((33/3 + 3 + 3)^3 + 33/3)$
:= $44 + ((4 \times 4 + 4/4)^{4-4/4})$
:= $5 + (((5 - (5 + 5)/5) + 5) \times ((5^5 - 5)/5 - 5))$
:= $(6 \times (66 \times (6 + 6) + 6 \times 6)) - 66/6$
:= $7 + ((7 \times ((777 - 77) + 7)) + 7/7)$
:= $8 + ((8 - 8/8) \times ((8 \times 88 - 8) + (88/8)))$
:= $9 + ((9 \times (9 \times (9 \times 9 - 9) - 99) - ((9 + 9)/9)) + 9)$

$$\begin{aligned}
\blacktriangleright 4958 &:= (111/(1+1+1)) \times (1+(1+(11 \times (1+11)))) \\
&:= 2 + (2 \times (2222 + 2^{2 \times (2+2)})) \\
&:= 3 + (((33/3 + 3 + 3)^3 + 33) + 3 \times 3) \\
&:= ((4 \times 4 + 4) \times (4^4 - 4 - 4)) - (4 + 4)/4 \\
&:= 5 + ((5555 - (5^5 + 5 + 5)/5) + 5 \times 5) \\
&:= (66 + 6/6) \times (((6 + 6)/6) + 66) + 6 \\
&:= 7 + ((7 \times ((777 - 77) + 7)) + ((7 + 7)/7)) \\
&:= 8 + (((8 - 8/8) \times ((8 + 8)/8) + 8 \times 88)) + 8 \\
&:= ((9/9 + 9) \times ((9 + 9)/9)^9) - 9 \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4959 &:= (11 - 1 - 1) \times (1 + ((1111 - 11)/(1 + 1))) \\
&:= (22/2)^2 + ((22 \times (222 - 2)) - 2) \\
&:= 3 \times (3^3 \times (3^3 + 33) + 33) \\
&:= ((4 \times 4 + 4) \times (4^4 - 4 - 4)) - 4/4 \\
&:= (5 - 5/5 + 5) \times ((5 + 5) \times 55 + 5/5) \\
&:= 6 + ((66 \times ((6 + 6)/6)^6) + ((6 \times 6/(6 + 6))^6)) \\
&:= ((77 - 7)/7) + (7 \times ((777 - 77) + 7)) \\
&:= (8/8 - 88) \times (8 - (8/8 + 8 \times 8)) \\
&:= 9 + (9 \times (9 \times (9 \times 9 - 9) - 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4960 &:= (11 - 1) \times (1 + (11 + ((11 + 11)^{1+1}))) \\
&:= 2 \times (2222 + 2^{2 \times (2+2)} + 2) \\
&:= 3/3 + (3 \times (3^3 \times (3^3 + 33) + 33)) \\
&:= (4 \times 4 + 4) \times (4^4 - 4 - 4) \\
&:= 5 \times ((5 - 5/5)^5 - ((5 + 5)/5)^5) \\
&:= (6 \times (6 + 6) \times (6 + 6)) + (((6 + 6)/6)^{6+6}) \\
&:= 77/7 + (7 \times ((777 - 77) + 7)) \\
&:= (88 - 8) \times (8 \times 8 - ((8 + 8)/8)) \\
&:= (9 - 9/9) \times (((9 + 9)/9)^9 + 99) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4961 &:= (((1 + 11^{1+1})^{1+1}) - 1)/(1 + 1 + 1) \\
&:= (22/2)^2 + (22 \times (222 - 2)) \\
&:= 3 \times 3^3 + ((33/3 + 3 + 3)^3 - 33) \\
&:= 4/4 + ((4 \times 4 + 4) \times (4^4 - 4 - 4)) \\
&:= 5 + ((5555 + ((5 - 5^5)/5)) + 5 \times 5) \\
&:= (6 \times (66 \times (6 + 6) + 6 \times 6)) - 6/6 - 6 \\
&:= (7 \times 7 - (7/7 + 7)) \times (((7 + 7)/7)^7 - 7) \\
&:= 8/8 + ((88 - 8) \times (8 \times 8 - ((8 + 8)/8))) \\
&:= 9 + (9 \times (9 \times (9 \times 9 - 9) - 99) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4962 &:= 1 + (((1 + 11^{1+1})^{1+1}) - 1)/(1 + 1 + 1) \\
&:= (2 \times (2 + 2 + 2)^2)^2 - 222 \\
&:= (333 \times ((3 \times 3 + 3) + 3)) - 33 \\
&:= (4 + 4)/4 + ((4 \times 4 + 4) \times (4^4 - 4 - 4)) \\
&:= (5/5 + 5) \times (55 \times (5 + 5 + 5) + ((5 + 5)/5)) \\
&:= (6 \times (66 \times (6 + 6) + 6 \times 6)) - 6 \\
&:= (7 - 7/7) \times ((777 + 7 \times 7) + 7/7) \\
&:= (8 + 8)/8 + ((88 - 8) \times (8 \times 8 - ((8 + 8)/8))) \\
&:= 9 + (((9 - 9/9) \times (9 \times 9 \times 9 - 999/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4963 &:= 1 + (1 + (((1 + 11^{1+1})^{1+1}) - 1)/(1 + 1 + 1)) \\
&:= 2 + ((22 \times (222 - 2)) + (22/2)^2) \\
&:= 3/3 + ((333 \times ((3 \times 3 + 3) + 3)) - 33) \\
&:= 4 + (((4 \times 4 + 4) \times (4^4 - 4 - 4)) - 4/4) \\
&:= (5/5 + 5)^5 + ((5^5 - 5)/(5 + 5) - 5^5) \\
&:= 6/6 + ((6 \times (66 \times (6 + 6) + 6 \times 6)) - 6) \\
&:= 7 + ((7 \times ((777 - 77) + 7)) + 7) \\
&:= 8 + (((88 \times (8 \times 8 - 8) + (88/8)) + 8) + 8) \\
&:= (9 - (9 + 9)/9) \times (9 \times 9 \times 9 - (99/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4964 &:= (1 + 1) \times ((1 + 1) \times ((11 \times (1 + 1 + 111)) - (1 + 1))) \\
&:= 2 + ((2 \times (2 + 2 + 2)^2)^2 - 222) \\
&:= 3^3 + (((33/3 + 3 + 3)^3 - 3) + 3^3) \\
&:= 4 + ((4 \times 4 + 4) \times (4^4 - 4 - 4)) \\
&:= 5 + ((5 - 5/5 + 5) \times ((5 + 5) \times 55 + 5/5)) \\
&:= (66 + 6/6 + 6) \times (((6 + 6)/6) + 66) \\
&:= (((7/7 - 7) + 77)^{(7+7)/7}) - 77 \\
&:= 8 + ((8888/((8 + 8)/8)) + 8 \times 8 \times 8) \\
&:= 9 \times (9 + 9) \times (9 + 9) + (((9 + 9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4965 &:= (11 + ((1 + 11^{1+1})^{1+1}))/ (1 + 1 + 1) \\
&:= (22 \times 222) + (2/2 + 2)^{2+2} \\
&:= (3 \times (3 \times 3 + 3)^3) - ((3 + 3)^3 + 3) \\
&:= 4 + (((4 \times 4 + 4) \times (4^4 - 4 - 4)) + 4/4) \\
&:= 5 \times ((5 - 5/5)^5 - (5 \times 5 + 5)) - 5 \\
&:= (6 \times (66 \times (6 + 6) + 6 \times 6)) - 6 \times 6/(6 + 6) \\
&:= (7/7 + 7 + 7) \times (7 \times 7 \times 7 - (77 + 7)/7) \\
&:= 888 + (8 \times 8 \times 8 \times 8 - (88/8 + 8)) \\
&:= 9 + ((99 + 9)/9 \times (((9 + 9)/9)^9 - 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4966 &:= 1 + ((11 + ((1 + 11^{1+1})^{1+1}))/ (1 + 1 + 1)) \\
&:= (22 \times (222 + 2 + 2)) - 2 - 2 - 2 \\
&:= 3/3 + ((3 \times (3 \times 3 + 3)^3) - ((3 + 3)^3 + 3)) \\
&:= ((4 + 4) \times ((4/4 + 4)^4 - 4)) - (4 + 4)/4 \\
&:= 5 \times 5 + (((55 - 5^5)/5) + 5555) \\
&:= 66 + (((6 + 6)/6)^6 + 6)^{(6+6)/6} \\
&:= 77 + ((7 \times (777 - 77)) - (77/7)) \\
&:= (8 \times (8 \times (88 - 8) - 8)) - ((8 + 8)/8 + 88) \\
&:= (((9 - 9/9) + 9) + 9) \times ((99/9 + 99) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4967 &:= 11111 - ((1 + 1 + 1) \times (1 + 1)^{11}) \\
&:= 2 + ((22 \times 222) + (2/2 + 2)^{2+2}) \\
&:= 3^3 + ((33/3 + 3 + 3)^3 + 3^3) \\
&:= ((4 + 4) \times ((4/4 + 4)^4 - 4)) - 4/4 \\
&:= 5^5 + ((5/5 + 5) \times (5^5 - 55)/(5 + 5)) \\
&:= (6 \times (66 \times (6 + 6) + 6 \times 6)) - 6/6 \\
&:= 7 + ((7 \times ((777 - 77) + 7)) + (77/7)) \\
&:= 8 + ((8/8 - 88) \times (8 - (8/8 + 8 \times 8))) \\
&:= 9 + (((9/9 + 9) \times (9 + 9)/9)^9) - 9 \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4968 &:= (1 + 1) \times ((1 + 1) \times ((11 \times (1 + 1 + 111)) - 1)) \\
&:= 2 \times (22 \times (222/2 + 2) - 2) \\
&:= (3 + 3) \times (3 \times 33 + 3^{3+3}) \\
&:= (4 + 4) \times ((4/4 + 4)^4 - 4) \\
&:= ((5 - (5 + 5)/5) + 5) \times ((5^5 + 5)/5 - 5) \\
&:= 6 \times (66 \times (6 + 6) + 6 \times 6) \\
&:= (7 \times (777 - 7 \times 7)) - ((7 + 7)/7)^7 \\
&:= (8 \times (8 \times (88 - 8) - 8)) - 88 \\
&:= (9 - 9/9) \times (9 \times 9 \times 9 - (99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4969 &:= 1 + ((1 + 1) \times ((1 + 1) \times ((11 \times (1 + 1 + 111)) - 1))) \\
&:= (22 \times (222 + 2 + 2)) - 2/2 - 2 \\
&:= 3/3 + ((3 + 3) \times (3 \times 33 + 3^{3+3})) \\
&:= 4/4 + ((4 + 4) \times ((4/4 + 4)^4 - 4)) \\
&:= (5 \times ((5 - 5/5)^5 - (5 \times 5 + 5))) - 5/5 \\
&:= 6/6 + (6 \times (66 \times (6 + 6) + 6 \times 6)) \\
&:= ((77 - 7) \times ((7/7 - 7) + 77)) - 7/7 \\
&:= 8/8 + ((8 \times (8 \times (88 - 8) - 8)) - 88) \\
&:= 9 + ((9 - 9/9) \times (((9 + 9)/9)^9 + 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4970 &:= (1 + 1) \times (((1 + 1) \times (11 \times (1 + 1 + 111))) - 1) \\
&:= (22 \times (222 + 2 + 2)) - 2 \\
&:= 3 + (((33/3 + 3 + 3)^3 + 3^3) + 3^3) \\
&:= (4 + 4)/4 + ((4 + 4) \times ((4/4 + 4)^4 - 4)) \\
&:= 5 \times ((5 - 5/5)^5 - (5 \times 5 + 5)) \\
&:= (6 + 6)/6 + (6 \times (66 \times (6 + 6) + 6 \times 6)) \\
&:= (77 - 7) \times ((7/7 - 7) + 77) \\
&:= (8 - 8/8) \times ((8 \times 88 - ((8 + 8)/8)) + 8) \\
&:= (9 \times 9 - 99/9) \times (9 \times 9 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4971 &:= ((1 + 1) \times ((1 + 1) \times (11 \times (1 + 1 + 111)))) - 1 \\
&:= (22 \times (222 + 2 + 2)) - 2/2 \\
&:= 3 + ((3 + 3) \times (3 \times 33 + 3^{3+3})) \\
&:= 4 + (((4 + 4) \times ((4/4 + 4)^4 - 4)) - 4/4) \\
&:= 5/5 + (5 \times ((5 - 5/5)^5 - (5 \times 5 + 5))) \\
&:= (6 \times 6/(6 + 6)) + (6 \times (66 \times (6 + 6) + 6 \times 6)) \\
&:= 7/7 + ((77 - 7) \times ((7/7 - 7) + 77)) \\
&:= 88/8 + ((88 - 8) \times (8 \times 8 - ((8 + 8)/8))) \\
&:= 999/9 + (9 + 9 + 9) \times (99 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4972 &:= (1 + 1) \times ((1 + 1) \times (11 \times (1 + 1 + 111))) \\
&:= 22 \times (222 + 2 + 2) \\
&:= 3 + (((3 + 3) \times (3 \times 33 + 3^{3+3})) + 3/3) \\
&:= 4 + ((4 + 4) \times ((4/4 + 4)^4 - 4)) \\
&:= (5 + 5)/5 + (5 \times ((5 - 5/5)^5 - (5 \times 5 + 5))) \\
&:= 6 + (((6 + 6)/6)^6 + 6)^{(6+6)/6} + 66 \\
&:= (7 + 7)/7 + ((77 - 7) \times ((7/7 - 7) + 77)) \\
&:= 88/8 \times (888/((8 + 8)/8) + 8) \\
&:= 9 \times 9 + (((9 \times 9 - 99/9)^{9+9/9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4973 &:= 1 + ((1+1) \times ((1+1) \times (11 \times (1+1+111)))) \\
&:= 2/2 + (22 \times (222+2+2)) \\
&:= 3^3 + ((33/3+3+3)^3 + 33) \\
&:= 4 + (((4+4) \times ((4/4+4)^4 - 4)) + 4/4) \\
&:= 5 + (((5 - (5+5)/5) + 5) \times ((5^5+5)/5 - 5)) \\
&:= 6 + ((6 \times (66 \times (6+6) + 6 \times 6)) - 6/6) \\
&:= ((7/7+7+7) \times (7 \times 7 \times 7 - (77/7))) - 7 \\
&:= 888 + (8 \times 8 \times 8 \times 8 - (88/8)) \\
&:= 9 + (((9+9)/9)^{99/9} + 9 \times (9+9) \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4974 &:= (1+1) \times (1 + ((1+1) \times (11 \times (1+1+111)))) \\
&:= 2 + (22 \times (222+2+2)) \\
&:= 33 + (3^3 \times ((3+3)^3 - 33)) \\
&:= 4 + (((4+4) \times ((4/4+4)^4 - 4)) + (4+4)/4) \\
&:= ((5+5) \times (555+5)) - (5^5+5)/5 \\
&:= 6 + (6 \times (66 \times (6+6) + 6 \times 6)) \\
&:= (7 - 7/7) \times ((77/7 \times (77 - 7/7)) - 7) \\
&:= 888 + ((8 - 88)/8 + 8 \times 8 \times 8 \times 8) \\
&:= 9 + (((99+9)/9 \times (((9+9)/9)^9 - 99)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4975 &:= 1 + ((1+1) \times (1 + ((1+1) \times (11 \times (1+1+111)))))) \\
&:= 2 + ((22 \times (222+2+2)) + 2/2) \\
&:= 3/3 + ((3^3 \times ((3+3)^3 - 33)) + 33) \\
&:= (4+4)^4 + (44 \times (4 \times 4 + 4) - 4/4) \\
&:= 5 \times (5 \times (5+5) \times (5 \times 5 - 5) - 5) \\
&:= 6 + ((6 \times (66 \times (6+6) + 6 \times 6)) + 6/6) \\
&:= 7 + ((7 \times (777 - 7 \times 7)) - ((7+7)/7)^7) \\
&:= 888 + (8 \times 8 \times 8 \times 8 - (8/8+8)) \\
&:= (9 \times (9 - 9 \times 9)) + (((99/9) \times ((9+9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4976 &:= (1+1) \times ((1+1) \times (1 + (11 \times (1+1+111)))) \\
&:= 2 + ((22 \times (222+2+2)) + 2) \\
&:= 3 + (((33/3+3+3)^3 + 33) + 3^3) \\
&:= 4 \times (4 \times (44+4^4) + 44) \\
&:= (5/5+5)^5 - (5 \times (555+5)) \\
&:= 6 + ((6 \times (66 \times (6+6) + 6 \times 6)) + ((6+6)/6)) \\
&:= 77 + ((7 \times (777 - 77)) - 7/7) \\
&:= 888 + (8 \times 8 \times 8 \times 8 - 8) \\
&:= (9 - 9/9) \times ((9 \times 9 \times 9 - (99+9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4977 &:= 1 + ((1+1) \times ((1+1) \times (1 + (11 \times (1+1+111)))))) \\
&:= (((2 \times (2+2) + 2)^{2+2} - 2)/2) - 22 \\
&:= (3 \times ((3 \times 3 + 3)^3 + 3)) - (3+3)^3 \\
&:= 4^4 + ((4/4+4)^4 + (4+4)^4) \\
&:= (5 - 5/5 + 5) \times (555 - (5+5)/5) \\
&:= (6/6+6) \times (((6 \times 6/(6+6))^6) - (6+6+6)) \\
&:= 77 + (7 \times (777 - 77)) \\
&:= (8 - 8/8) \times ((8 \times 88 - 8/8) + 8) \\
&:= 9 \times ((99 \times 99 - 9)/(9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4978 &:= (1+1) \times (1 + ((1+1) \times (1 + (11 \times (1+1+111)))))) \\
&:= (2 \times (2 \times (22+2) + 2)^2) - 22 \\
&:= 3/3 + ((3 \times ((3 \times 3 + 3)^3 + 3)) - (3+3)^3) \\
&:= (((44-4)/4)^4 - 44)/((4+4)/4) \\
&:= (5+5)/5 \times (5^5 - ((55+5^5)/5)) \\
&:= 666 + (((6+6)/6)^{6+6} + 6 \times 6 \times 6) \\
&:= 7/7 + ((7 \times (777 - 77)) + 77) \\
&:= 8 + ((8 - 8/8) \times ((8 \times 88 - ((8+8)/8)) + 8)) \\
&:= 9/9 + (9 \times ((99 \times 99 - 9)/(9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4979 &:= 1 + ((1+1) \times (1 + ((1+1) \times (1 + (11 \times (1+1+111)))))) \\
&:= (((2 \times (2+2) + 2)^{2+2} + 2)/2) - 22 \\
&:= 33 + ((33/3+3+3)^3 + 33) \\
&:= 44/4 + ((4+4) \times ((4/4+4)^4 - 4)) \\
&:= 5 + (((5+5) \times (555+5)) - (5^5+5)/5) \\
&:= 66 + ((66/6+6)^{6 \times 6/(6+6)}) \\
&:= ((7+7)/7)^7 + (7 \times ((7 \times 7 \times (7+7)) + 7)) \\
&:= 88/8 + ((8 \times (8 \times (88 - 8) - 8)) - 88) \\
&:= 9 + ((9 \times 9 - 99/9) \times (9 \times 9 - (9/9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4980 &:= (1+1) \times ((1+1) \times (1 + (1 + (11 \times (1+1+111)))))) \\
&:= 2 + ((2 \times (2 \times (22+2) + 2)^2) - 22) \\
&:= ((3 \times 3 + 3) + 3) \times (333 - 3/3) \\
&:= 4 + (44 \times (4 \times 4 + 4) + (4+4)^4) \\
&:= 5 + (5 \times (5 \times (5+5) \times (5 \times 5 - 5) - 5)) \\
&:= 6 + ((6 \times (66 \times (6+6) + 6 \times 6)) + 6) \\
&:= (7/7+7+7) \times (7 \times 7 \times 7 - (77/7)) \\
&:= 8 + (88 \times (8 \times 8 - 8) + (88/(8+8)/8)) \\
&:= 9 + ((9+9+9) \times (99+9 \times 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4981 &:= 1 + ((1+1) \times ((1+1) \times (1 + (1 + (11 \times (1+1+111)))))) \\
&:= 2 + (((2 \times (2+2) + 2)^{2+2} + 2)/2) - 22 \\
&:= 3/3 + (((3 \times 3 + 3) + 3) \times (333 - 3/3)) \\
&:= 4 + (((4/4+4)^4 + (4+4)^4) + 4^4) \\
&:= 5 + ((5/5+5)^5 - (5 \times (555+5))) \\
&:= 6 + (((6 \times (66 \times (6+6) + 6 \times 6)) + 6/6) + 6) \\
&:= 77/7 + ((77 - 7) \times ((7/7 - 7) + 77)) \\
&:= 8 \times 8 + (88 \times (8 \times 8 - 8) - (88/8)) \\
&:= 9 \times 9 + ((9 \times 9 - 99/9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4982 &:= (11 \times (1 + (11 + ((11 + (11 - 1))^{1+1})))) - 1 \\
&:= (2 \times ((2 \times (22+2) + 2)^2 + 2)) - 22 \\
&:= 3 + (((33/3+3+3)^3 + 33) + 33) \\
&:= 4 + (((44-4)/4)^4 - 44)/((4+4)/4) \\
&:= 5 + ((5 - 5/5 + 5) \times (555 - (5+5)/5)) \\
&:= (66/6+6 \times 6) \times ((666+6)/6 - 6) \\
&:= 7777/7 + (7 \times ((7 \times 77 + 7) + 7)) \\
&:= 888 + (8 \times 8 \times 8 \times 8 - ((8+8)/8)) \\
&:= 9 \times 9 + ((99 \times 99 + 9/9)/(9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4983 &:= 11 \times (1 + (11 + ((11 + (11 - 1))^{1+1}))) \\
&:= 22/2 + (22 \times (222+2+2)) \\
&:= 3 \times (((33/3)^3 - 3) + 333) \\
&:= (4+4)^4 + (((4+4) \times 444 - 4)/4) \\
&:= 5 + ((5+5)/5 \times (5^5 - ((55+5^5)/5))) \\
&:= 6 + ((6/6+6) \times (((6 \times 6/(6+6))^6) - (6+6+6))) \\
&:= 7 + (((7 \times (777 - 77)) - 7/7) + 77) \\
&:= 888 + (8 \times 8 \times 8 \times 8 - 8/8) \\
&:= (9 \times (9 \times (9 \times 9 - (9+9)))) - (999/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4984 &:= (111 \times (1 + ((1+1) \times (11+11)))) - 11 \\
&:= 2 \times (2^{22/2} + 2 \times 222) \\
&:= (33 \times 3^3) + ((3/3+3)^{3+3} - 3) \\
&:= ((4+4) \times (4/4+4)^4) - 4 \times 4 \\
&:= 55 + (5555 - (5^5+5)/5) \\
&:= 6 + (((6+6)/6)^{6+6} + 6 \times 6 \times 6) + 666 \\
&:= 7 + ((7 \times (777 - 77)) + 77) \\
&:= 888 + 8 \times 8 \times 8 \times 8 \\
&:= (9 - 9/9) \times (999/9 + ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4985 &:= 1 + ((111 \times (1 + ((1+1) \times (11+11)))) - 11) \\
&:= 2 + ((22 \times (222+2+2)) + 22/2) \\
&:= (3 \times (3^3 - 3)) + (33/3+3+3)^3 \\
&:= 4/4 + (((4+4) \times (4/4+4)^4) - 4 \times 4) \\
&:= 55 + (5555 - 5^5/5) \\
&:= 6 + (((66/6+6)^{6 \times 6/(6+6)}) + 66) \\
&:= (7 \times (777 - 7 \times 7)) - 777/7 \\
&:= 8/8 + (8 \times 8 \times 8 \times 8 + 888) \\
&:= 9 \times 9 + (((9 - 9/9) + 9)^{(9+9+9)/9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4986 &:= (11 - 1 - 1) \times (((1111 - 1)/(1+1)) - 1) \\
&:= 2 + (2 \times (2^{22/2} + 2 \times 222)) \\
&:= 3 \times ((3 \times 3 + 3)^3 - (33+33)) \\
&:= 4^4 + ((44 - 4/4) \times (444 - 4)/4) \\
&:= (5 - 5/5 + 5) \times (555 - 5/5) \\
&:= 666 + (6 \times (6+6) \times (66 - 6)) \\
&:= 7 + ((7 \times ((7 \times 7 \times (7+7)) + 7)) + ((7+7)/7)^7) \\
&:= 888 + (8 \times 8 \times 8 \times 8 + ((8+8)/8)) \\
&:= 9 \times ((99 \times 99 + 9)/(9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 4987 &:= 1 + ((11 - 1 - 1) \times (((1111 - 1)/(1+1)) - 1)) \\
&:= (((2 \times (2+2) + 2)^{2+2} - 22)/2) - 2 \\
&:= (33 \times 3^3) + (3/3+3)^{3+3} \\
&:= (4+4)^4 + (44/4 \times (4 - 4/4)^4) \\
&:= ((55/5+5) \times (5^5 - 5)/(5+5)) - 5 \\
&:= 6/6 + ((6 \times (6+6) \times (66 - 6)) + 666) \\
&:= ((7+7) \times (7 \times 7 \times 7 + 7 + 7)) - 77/7 \\
&:= 888 + ((8 \times 8 \times 8 \times 8 - 8) + (88/8)) \\
&:= 9 \times 99 + ((9 - 9/9) \times ((9+9)/9)^9)
\end{aligned}$$

$$\blacktriangleright 4988 := (((11-1)^{1+1+1+1})/(1+1)) - 1 - 11$$

$$:= 2 \times (2^{22/2} + 2 \times 222) + 2$$

$$:= 3 + ((33/3 + 3 + 3)^3 + (3 \times (3^3 - 3)))$$

$$:= 4 + (((4+4) \times (4/4 + 4^4)) - 4 \times 4)$$

$$:= (5+5)/5 \times (5^5 - ((5^5 + 5)/5 + 5))$$

$$:= ((6 \times 6 + 6/6) + 6) \times (((666 - 6)/6) + 6)$$

$$:= 77 + ((7 \times (777 - 77)) + (77/7))$$

$$:= 8 \times 8 + (88 \times (8 \times 8 - 8) - (8/(8+8)/8))$$

$$:= (99/9 + 9 + 9) \times ((9 \times (9+9) + 9/9) + 9)$$

$$\blacktriangleright 4989 := (((11-1)^{1+1+1+1})/(1+1)) - 11$$

$$:= (((2 \times (2+2) + 2)^{2+2}) - 22)/2$$

$$:= (333 \times ((3 \times 3 + 3) + 3)) - 3 - 3$$

$$:= ((4+4) \times (4/4 + 4^4)) - 44/4$$

$$:= 5555 - (555 + (55/5))$$

$$:= (666/6 \times (666/6 - 66)) - 6$$

$$:= ((7+7) \times (7 \times 7 \times 7 + 7 + 7)) - ((7+7)/7 + 7)$$

$$:= 8 + ((88 \times (8 \times 8 - 8) - (88/8)) + 8 \times 8)$$

$$:= ((9999 - 9/9)/(9+9)/9) - 9/9 - 9$$

$$\blacktriangleright 4990 := 1 + (((11-1)^{1+1+1+1})/(1+1)) - 11$$

$$:= (2 \times ((2 \times (22+2) + 2)^2 - (2+2))) - 2$$

$$:= 3 + ((3/3 + 3)^{3+3} + (33 \times 3^3))$$

$$:= (4 - 44)/4 + ((4+4) \times (4/4 + 4^4))$$

$$:= (5 \times ((5 - 5/5)^5 - 5 \times 5)) - 5$$

$$:= (((6+6)/6)^6 \times (66+6+6)) - (6+6)/6$$

$$:= ((7+7) \times (7 \times 7 \times 7 + 7 + 7)) - (7/7 + 7)$$

$$:= 8 \times 8 + (88 \times (8 \times 8 - 8) - ((8+8)/8))$$

$$:= (9/9 + 9) \times ((9 \times 999 - 9)/(9+9))$$

$$\blacktriangleright 4991 := 1 + (1 + (((11-1)^{1+1+1+1})/(1+1)) - 11)$$

$$:= 2 + (((2 \times (2+2) + 2)^{2+2}) - 22)/2$$

$$:= 3 \times 3^3 + ((33/3 + 3 + 3)^3 - 3)$$

$$:= ((44 + 4/4) \times 444/4) - 4$$

$$:= 5 + ((5 - 5/5 + 5) \times (555 - 5/5))$$

$$:= ((66/6 + 6) + 6) \times (6 \times 6 \times 6 + 6/6)$$

$$:= ((7+7) \times (7 \times 7 \times 7 + 7 + 7)) - 7$$

$$:= 8 \times 8 + (88 \times (8 \times 8 - 8) - 8/8)$$

$$:= ((9999 + 9/9)/(9+9)/9) - 9$$

$$\blacktriangleright 4992 := (1+1) \times ((11 \times (1 + ((1+1) \times (1+1+11)))) - 1)$$

$$:= 2 \times ((2 \times (22+2) + 2)^2 - (2+2))$$

$$:= 3 \times ((33/3)^3 + 333)$$

$$:= 4 \times ((4 \times (4^4 - 4 - 4)) + 4^4)$$

$$:= (55/5 + 5) \times (5^5 - 5)/(5+5)$$

$$:= ((6+6)/6)^6 \times (66+6+6)$$

$$:= (7 \times 7 - 7/7) \times (777/7 - 7)$$

$$:= 8 \times (88 \times (8 - 8/8) + 8)$$

$$:= (9 \times (9 \times (9 \times 9 - (9+9)))) - 999/9$$

$$\blacktriangleright 4993 := (111 \times (1 + ((1+1) \times (11+11)))) - 1 - 1$$

$$:= 222/2 + ((22 \times 222) - 2)$$

$$:= 3/3 + (3 \times ((33/3)^3 + 333))$$

$$:= 4 + (((4+4) \times (4/4 + 4^4)) - 44/4)$$

$$:= (5 \times ((5 - 5/5)^5 - 5 \times 5)) - (5+5)/5$$

$$:= 6/6 + (((6+6)/6)^6 \times (66+6+6))$$

$$:= 7/7 + ((7 \times 7 - 7/7) \times (777/7 - 7))$$

$$:= 8/8 + (88 \times (8 \times 8 - 8) + 8 \times 8)$$

$$:= ((9 - 999)/9) + (9 \times (9 \times (9 \times 9 - (9+9))))$$

$$\blacktriangleright 4994 := (111 \times (1 + ((1+1) \times (11+11)))) - 1$$

$$:= 22 + (22 \times (222 + 2 + 2))$$

$$:= 3 \times 3^3 + (33/3 + 3 + 3)^3$$

$$:= 44/4 \times ((44 - 4)/4 + 444)$$

$$:= (5 \times ((5 - 5/5)^5 - 5 \times 5)) - 5/5$$

$$:= 66 + (((6+6)/6)^6 \times (66/6 + 66))$$

$$:= 77/7 \times (777/7 + 7 \times 7 \times 7)$$

$$:= 8 \times 8 + (88 \times (8 \times 8 - 8) + ((8+8)/8))$$

$$:= 9 \times 9 + (((9 - 9/9) + 9)^{(9+9+9)/9})$$

$$\blacktriangleright 4995 := 111 \times (1 + ((1+1) \times (11+11)))$$

$$:= 222/2 + (22 \times 222)$$

$$:= 333 \times ((3 \times 3 + 3) + 3)$$

$$:= (44 + 4/4) \times 444/4$$

$$:= 5 \times ((5 - 5/5)^5 - 5 \times 5)$$

$$:= 666/6 \times (666/6 - 66)$$

$$:= 777/7 \times ((7 \times 7 - 77/7) + 7)$$

$$:= 888 + (8 \times 8 \times 8 \times 8 + (88/8))$$

$$:= 9 \times (9999 - 9)/(9+9)$$

$$\blacktriangleright 4996 := 1 + (111 \times (1 + ((1+1) \times (11+11))))$$

$$:= 2 \times ((2 \times (22+2) + 2)^2 - 2)$$

$$:= 3/3 + (333 \times ((3 \times 3 + 3) + 3))$$

$$:= ((4+4) \times (4/4 + 4^4)) - 4$$

$$:= 5/5 + (5 \times ((5 - 5/5)^5 - 5 \times 5))$$

$$:= (((6+6)/6)^{6+6}) + (6 \times ((6+6) \times (6+6) + 6))$$

$$:= ((7+7) \times (7 \times 7 \times 7 + 7 + 7)) - (7+7)/7$$

$$:= 8 \times 8 + (88 \times (8 \times 8 - 8) + (8/((8+8)/8)))$$

$$:= 9/9 + (9 \times (9999 - 9)/(9+9))$$

$$\blacktriangleright 4997 := 1 + (1 + (111 \times (1 + ((1+1) \times (11+11))))))$$

$$:= (((2 \times (2+2) + 2)^{2+2}) - 2)/2 - 2$$

$$:= 3 + ((33/3 + 3 + 3)^3 + 3 \times 3^3)$$

$$:= 4/4 + (((4+4) \times (4/4 + 4^4)) - 4)$$

$$:= 5 + ((55/5 + 5) \times (5^5 - 5)/(5+5))$$

$$:= 6 + (((66/6 + 6) + 6) \times (6 \times 6 \times 6 + 6/6))$$

$$:= ((7+7) \times (7 \times 7 \times 7 + 7 + 7)) - 7/7$$

$$:= ((8 - 8/8) \times (88/8 + 8 \times 8)) - 8$$

$$:= (9+9)/9 + (9 \times (9999 - 9)/(9+9))$$

$$\blacktriangleright 4998 := (((11-1)^{1+1+1+1})/(1+1)) - 1 - 1$$

$$:= (2 \times (2 \times (22+2) + 2)^2) - 2$$

$$:= 3 + (333 \times ((3 \times 3 + 3) + 3))$$

$$:= (((44 - 4)/4)^4 - 4)/(4+4)/4$$

$$:= (5+5)/5 \times (5^5 - (5^5 + 5)/5)$$

$$:= 6 + (((6+6)/6)^6 \times (66+6+6))$$

$$:= (7+7) \times (7 \times 7 \times 7 + 7 + 7)$$

$$:= (8 - 8/8) \times (((8+8)/8) + 8 \times 88) + 8$$

$$:= (99 - 9/9) \times (9 \times (9+9) - 999/9)$$

$$\blacktriangleright 4999 := (((11-1)^{1+1+1+1})/(1+1)) - 1$$

$$:= (((2 \times (2+2) + 2)^{2+2}) - 2)/2$$

$$:= 3 + ((333 \times ((3 \times 3 + 3) + 3)) + 3/3)$$

$$:= ((4+4) \times (4/4 + 4^4)) - 4/4$$

$$:= 5555 - (555 + 5/5)$$

$$:= ((66 - 6/6) \times (66/6 + 66)) - 6$$

$$:= 7/7 + ((7+7) \times (7 \times 7 \times 7 + 7 + 7))$$

$$:= 8 + ((88 \times (8 \times 8 - 8) - 8/8) + 8 \times 8)$$

$$:= (9999 - 9/9)/(9+9)/9$$

$$\blacktriangleright 5000 := ((11-1)^{1+1+1+1})/(1+1)$$

$$:= 2 \times (2 \times (22+2) + 2)^2$$

$$:= (3 - 3/3 + 3) \times ((3 \times 3 + 3/3)^3)$$

$$:= (4+4) \times (4/4 + 4^4)$$

$$:= 5 \times 5 \times (5+5) \times (5 \times 5 - 5)$$

$$:= (6 - 6/6) \times (((66 - 6)/6)^{6 \times 6 / (6+6)})$$

$$:= (7+7)/7 + ((7+7) \times (7 \times 7 \times 7 + 7 + 7))$$

$$:= 8 + (88 \times (8 \times 8 - 8) + 8 \times 8)$$

$$:= (9999 + 9/9)/(9+9)/9$$

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