RESEARCH GROUP IN MATHEMATICAL INEQUALITIES AND APPLICATIONS

PROBLEM CORNER

Problem 1, (2008)

J. Patel

Department of Mathematics, Utkal University, Vani Vihar Bhubaneswar-751004

Email: jpatelmath@yahoo.co.in

Received: 25 October, 2008

For $-1 < A \le 1$ and $0 < \theta \le 2\pi$, find a lower bound of

$$\Re\left(\frac{1}{1+Ae^{i\theta}}\right).$$