

Bilkent University Department of Mathematics

PROBLEM OF THE MONTH

Term: May 2008

Find the minimum of

$$\frac{1+a+b+c}{3+2a+b} - \frac{c}{b}$$

where a, b and c are real numbers such that all roots of the equation $x^3 - ax^2 + bx - c = 0$ are real positive numbers.