

Bilkent University
Department of Mathematics

## Problem Of The Month

Term: May 2008

Find the minimum of

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

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

