

Bilkent University
Department of Mathematics

## Problem Of The Month

Term: May 2007

For all positive $a, b, c$ satisfying $a+b+c=1$, prove the following inequality:

$$
\frac{1}{a(2-a)+b c}+\frac{1}{b(2-b)+a c}+\frac{1}{c(2-c)+a b} \geq \frac{9}{2}
$$

