Bilkent University
Department of Mathematics

Problem Of The Month

Term: May 2010

Let a, b and c be positive real numbers and $s = abc$. Find the minimal number L satisfying

$$\frac{a^3 - s}{2a^3 + s} + \frac{b^3 - s}{2b^3 + s} + \frac{c^3 - s}{2c^3 + s} \leq L$$