

Problema săptămânii 81

Dacă $a, b, c > 0$, demonstrați că

$$\frac{a}{b(a^2 + 2b^2)} + \frac{b}{c(b^2 + 2c^2)} + \frac{c}{a(c^2 + 2a^2)} \geq \frac{3}{ab + bc + ca}.$$

Problem of the week no. 81

If $a, b, c > 0$, then prove that

$$\frac{a}{b(a^2 + 2b^2)} + \frac{b}{c(b^2 + 2c^2)} + \frac{c}{a(c^2 + 2a^2)} \geq \frac{3}{ab + bc + ca}.$$