

Problema săptămânii 334

Fie a, b, c numere reale pozitive. Demonstrați inegalitatea

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

Problem of the week no. 334

Prove that the following inequality holds for all positive $a, b, c > 0$

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