

**Problema săptămânii 274**

Fie  $a, b, c > 0$ . Demonstrați că

$$\frac{a^2 + b^2}{a} + \frac{b^2 + c^2}{b} + \frac{c^2 + a^2}{c} \geq 4 \left( \frac{a^3}{a^2 + b^2} + \frac{b^3}{b^2 + c^2} + \frac{c^3}{c^2 + a^2} \right).$$

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**Problem of the week no. 274**

If  $a, b, c$  are positive real numbers, prove that

$$\frac{a^2 + b^2}{a} + \frac{b^2 + c^2}{b} + \frac{c^2 + a^2}{c} \geq 4 \left( \frac{a^3}{a^2 + b^2} + \frac{b^3}{b^2 + c^2} + \frac{c^3}{c^2 + a^2} \right).$$

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