

### **Problema săptămânii 326**

Dacă  $a, b, c \in (0, \infty)$ , demonstrați că

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

### **Problem of the week no. 326**

If  $a, b, c \in (0, \infty)$ , prove that

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