

Problema săptămânii 89

Demonstrați că pentru orice a, b, c pozitive are loc inegalitatea

$$\frac{2ab}{a+b} + \frac{2bc}{b+c} + \frac{2ca}{c+a} \leq \frac{3ab + 3bc + 3ca}{a+b+c}.$$

Problem of the week no. 89

Prove that the inequality

$$\frac{2ab}{a+b} + \frac{2bc}{b+c} + \frac{2ca}{c+a} \leq \frac{3ab + 3bc + 3ca}{a+b+c}$$

holds for all positive real numbers a, b, c .