

Problema săptămânii 146

Dacă $a, b, c \in [0, 1]$, demonstrați inegalitățile:

a) $\frac{a}{1+bc} + \frac{b}{1+ca} + \frac{c}{1+ab} \leq 2,$

b) $\frac{a}{1+bc} + \frac{b}{1+ca} + \frac{c}{1+ab} + \frac{1}{2}abc \leq 2.$

Problem of the week no. 146

If $a, b, c \in [0, 1]$, prove the inequalities:

a) $\frac{a}{1+bc} + \frac{b}{1+ca} + \frac{c}{1+ab} \leq 2,$

b) $\frac{a}{1+bc} + \frac{b}{1+ca} + \frac{c}{1+ab} + \frac{1}{2}abc \leq 2.$