

**Problema săptămânii 290**

Dacă  $a, b, c$  sunt numere reale pozitive, demonstrați că

$$\frac{(1+a)^2(1+b)^2}{1+c^2} + \frac{(1+b)^2(1+c)^2}{1+a^2} + \frac{(1+c)^2(1+a)^2}{1+b^2} \geq 8(a+b+c).$$

*Dorin Mărghidanu*

**Problem of the week no. 290**

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

$$\frac{(1+a)^2(1+b)^2}{1+c^2} + \frac{(1+b)^2(1+c)^2}{1+a^2} + \frac{(1+c)^2(1+a)^2}{1+b^2} \geq 8(a+b+c).$$

*Dorin Mărghidanu*