

Problema săptămânii 350

Numerele reale pozitive a, b, c, d, e satisfac $abcde = 1$. Arătați că

$$\frac{a^2}{b^2} + \frac{b^2}{c^2} + \frac{c^2}{d^2} + \frac{d^2}{e^2} + \frac{e^2}{a^2} \geq a + b + c + d + e.$$

Problem of the week no. 350

Positive real numbers a, b, c, d, e satisfy $abcde = 1$. Prove that

$$\frac{a^2}{b^2} + \frac{b^2}{c^2} + \frac{c^2}{d^2} + \frac{d^2}{e^2} + \frac{e^2}{a^2} \geq a + b + c + d + e.$$