Problema săptămânii 53
Fie a, b, c numere reale pozitive cu proprietatea

$$\frac{a}{1+a} + \frac{b}{1+b} + \frac{c}{1+c} = 2.$$

Demonstraţi că

$$\frac{\sqrt{a}+\sqrt{b}+\sqrt{c}}{2} \geq \frac{1}{\sqrt{a}} + \frac{1}{\sqrt{b}} + \frac{1}{\sqrt{c}}.$$

Problem of the week no. 53
Let a, b, c be positive real numbers such that

$$\frac{a}{1+a} + \frac{b}{1+b} + \frac{c}{1+c} = 2.$$

Prove that

$$\frac{\sqrt{a}+\sqrt{b}+\sqrt{c}}{2} \geq \frac{1}{\sqrt{a}} + \frac{1}{\sqrt{b}} + \frac{1}{\sqrt{c}}.$$