

Bizonyítsuk be, hogy

$$\frac{u_1^p}{v_1^{p-1}} + \frac{u_2^p}{v_2^{p-1}} + \dots + \frac{u_k^p}{v_k^{p-1}} \geq \frac{(u_1 + u_2 + \dots + u_k)^p}{(v_1 + v_2 + \dots + v_k)^{p-1}}$$