

Mutassuk meg, hogy

$$\operatorname{ctg}\alpha \operatorname{ctg}\beta + \operatorname{ctg}\beta \operatorname{ctg}\gamma + \operatorname{ctg}\gamma \operatorname{ctg}\alpha = 1$$

és

$$\operatorname{tg}\frac{\alpha}{2} \operatorname{tg}\frac{\beta}{2} + \operatorname{tg}\frac{\beta}{2} \operatorname{tg}\frac{\gamma}{2} + \operatorname{tg}\frac{\gamma}{2} \operatorname{tg}\frac{\alpha}{2} = 1,$$

ha $\alpha + \beta + \gamma = 180^\circ$.