

Mutassuk meg, hogy

$$\operatorname{tg}^2 \alpha \operatorname{tg}^2 \beta \operatorname{tg}^2 \gamma - (\operatorname{tg}^2 \alpha + \operatorname{tg}^2 \beta + \operatorname{tg}^2 \gamma) = 2 + 2 \sec \alpha \sec \beta \sec \gamma$$

és

$$\operatorname{tg}^3 \alpha \operatorname{tg}^3 \beta \operatorname{tg}^3 \gamma - (\operatorname{tg}^3 \alpha + \operatorname{tg}^3 \beta + \operatorname{tg}^3 \gamma) = \frac{3 \operatorname{tg} \alpha \operatorname{tg} \beta \operatorname{tg} \gamma}{\cos \alpha \cos \beta \cos \gamma},$$

ha

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