

Mutassuk meg, hogy

$$\sin 4\alpha + \sin 4\beta + \sin 4\gamma = -4 \sin 2\alpha \sin 2\beta \sin 2\gamma$$

és

$$\cos 4\alpha + \cos 4\beta + \cos 4\gamma = 4 \cos 2\alpha \cos 2\beta \cos 2\gamma - 1,$$

ha

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