Mutassuk meg, hogy

1°.
$$\sin^3 \alpha + \sin^3 \beta + \sin^3 \gamma = 3 \cos \frac{\alpha}{2} \cos \frac{\beta}{2} \cos \frac{\gamma}{2} + \cos \frac{3\alpha}{2} \cos \frac{3\beta}{2} \cos \frac{3\gamma}{2}.$$

2°.
$$\cos^3 \alpha + \cos^3 \beta + \cos^3 \gamma = 3 \sin \frac{\alpha}{2} \sin \frac{\beta}{2} \sin \frac{\gamma}{2} - \sin \frac{3\alpha}{2} \sin \frac{3\beta}{2} \sin \frac{3\gamma}{2} + 1,$$

ha
$$\alpha + \beta + \gamma = 180°.$$