

**1191.** Mutassuk meg, hogy

$$1^\circ. \quad \sin \alpha \cos \beta \cos \gamma + \sin \beta \cos \alpha \cos \gamma + \sin \gamma \cos \alpha \cos \beta = \sin \alpha \sin \beta \sin \gamma.$$

$$2^\circ. \quad \frac{\operatorname{ctg} \frac{\beta}{2} + \operatorname{ctg} \frac{\gamma}{2}}{\operatorname{ctg} \frac{\alpha}{2} + \operatorname{ctg} \frac{\gamma}{2}} = \frac{\sin \alpha}{\sin \beta},$$

ha

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