

Zadatak 28. U trokutu $\triangle ABC$ je $r = 3$ cm, $\beta = 75^\circ$, $\gamma = 60^\circ$. Kolika je površina trokuta?

Rješenje.

$$r = \rho = 3 \text{ cm}$$

$$\beta = 75^\circ$$

$$\gamma = 60^\circ$$

$$P = ?$$

$$\alpha = 180^\circ - \beta - \gamma = 45^\circ$$

$$P = r \cdot \operatorname{ctg} \frac{\alpha}{2} \cdot \operatorname{ctg} \frac{\beta}{2} \cdot \operatorname{ctg} \frac{\gamma}{2} = 49 \text{ cm}^2.$$