

Zadatak 25. U trokutu $\triangle ABC$ je $c = 11$ cm, $R = 12$ cm te $\beta = 50^\circ 33' 28''$. Kolika je površina trokuta?

Rješenje.

$$c = 11 \text{ cm}$$

$$R = 12 \text{ cm}$$

$$\beta = 50^\circ 33' 28''$$

$$P = ?$$

$$c = 2R \sin \gamma \implies \sin \gamma = \frac{c}{2R} \implies \gamma = 27^\circ 16' 47''$$

$$\alpha = 180^\circ - \beta - \gamma = 102^\circ 9' 45''$$

$$P = 2R^2 \sin \alpha \sin \beta \sin \gamma = 99.65 \text{ cm}^2.$$