

**Zadatak 21.** Ako je u trokutu  $\triangle ABC$  zadano  $a = 32$  cm,  $R = 18$  cm,  $\gamma = 33^\circ$ , odredi ostale stranice i kutove trokuta.

**Rješenje.**

$$a = 32 \text{ cm}$$

$$R = 18 \text{ cm}$$

$$\gamma = 33^\circ$$

---


$$b, c = ?$$

$$R = \frac{c}{2 \sin \gamma} \implies c = 2R \sin \gamma = 19.6 \text{ cm.}$$

$$R = \frac{a}{2 \sin \alpha} \implies \sin \alpha = \frac{a}{2R}$$

$$\implies \alpha_1 = 62^\circ 44'$$

$$\implies \alpha_2 = 180^\circ - \alpha_1 = 117^\circ 16'$$

$$\beta_1 = 180^\circ - \gamma - \alpha_1 = 84^\circ 16' \implies b_1 = 2R \sin \beta_1 = 35.8 \text{ cm}$$

$$\beta_2 = 180^\circ - \gamma - \alpha_2 = 29^\circ 44' \implies b_2 = 2R \sin \beta_2 = 17.85 \text{ cm}$$

