

**Zadatak 16.** U tetivnom je četverokutu zadano  $b = 5.1$  cm,  $c = 4$  cm,  $d = 3.6$  cm i  $R = 4.25$  cm. Koliki su njegovi kutovi?

**Rješenje.**

$$b = 5.1 \text{ cm}$$

$$c = 4 \text{ cm}$$

$$d = 3.6 \text{ cm}$$

$$R = 4.25 \text{ cm}$$

$$\alpha, \beta, \gamma, \delta = ?$$

$$\cos \delta_1 = \frac{d}{2R} = 0.423529 \implies \delta_1 = 64^\circ 57'$$

$$\cos \gamma_1 = \frac{c}{2R} = 0.470588 \implies \gamma_1 = 61^\circ 54'$$

$$\delta = \delta_1 + \gamma_1 = 126^\circ 52''$$

$$\beta = 180^\circ - \delta = 180^\circ - 126^\circ 52'' = 53^\circ 08''$$

$$\cos \beta_1 = \frac{b}{2R} = 0.6 \implies \beta_1 = 53^\circ 7' 48''$$

$$\gamma = \beta_1 + \gamma_1 = 53^\circ 8' + 61^\circ 54 = 115^\circ 4'$$

$$\alpha = 180^\circ - \gamma = 180^\circ - 115^\circ 4' = 64^\circ 56'$$

