

**Zadatak 38.** Koliki su kutovi trokuta  $\triangle ABC$  ako je  $a = 3.5$  cm,  $b = 2$  cm,  $t_c = 2.2$  cm?

*Rješenje.*

$$a = 3.5 \text{ cm}$$

$$b = 2 \text{ cm}$$

$$t_c = 2.2 \text{ cm}$$

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

$$c^2 = 2a^2 + 2b^2 - 4t_c^2 = 13.14 \text{ cm}^2 \implies c = 3.624914$$

$$\cos \gamma = \frac{a^2 + b^2 - c^2}{2ab} = 0.222142857 \implies \gamma = 77^\circ 10'$$

$$\sin \alpha = \frac{a \cdot \sin \gamma}{c} = 0.941421 \implies \alpha = 70^\circ 18' 28''$$

$$\beta = 180^\circ - \alpha - \gamma = 32^\circ 32'$$