

**Zadatak 40.** Koliki su kutovi trokuta  $\triangle ABC$  ako su duljine težišnica tog trokuta jednake 11 cm, 12 cm i 13 cm?

*Rješenje.*

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

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

$$t_c = 13 \text{ cm}$$

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

$$\cos \alpha = \frac{t_b^2 + t_c^2 - t_a^2}{2t_b t_c} \implies \alpha \approx 52^\circ$$

$$\cos \beta = \frac{t_a^2 + t_c^2 - t_b^2}{2t_a t_c} \implies \beta \approx 60^\circ$$

$$\cos \gamma = \frac{t_a^2 + t_b^2 - t_c^2}{2t_a t_b} \implies \gamma \approx 68^\circ$$