

Zadatak 37. Koliki je kut γ u trokutu $\triangle ABC$ ako je $a = 6$ cm, $c = 11$ cm, $t_b = 8$ cm?

Rješenje.

$$a = 6 \text{ cm}$$

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

$$t_b = 8 \text{ cm}$$

$$\gamma = ?$$

$$4t_b^2 = 2a^2 + 2c^2 - b^2$$

$$b^2 = 2a^2 + 2c^2 - 4t_b^2 = 58 \implies b = 7.616 \text{ cm}$$

$$\cos \gamma = \frac{a^2 + b^2 - c^2}{2ab} = -0.29543 \implies \gamma = 107^\circ 11'$$

