

Zadatak 16. U trokutu $\triangle ABC$ je $\gamma = 72^\circ 8'$, $a = 18$ cm, $v_c = 11$ cm. Kolika je duljina stranice c tog trokuta?

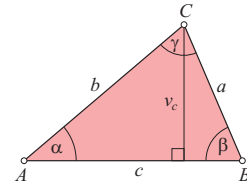
Rješenje.

$$\gamma = 72^\circ 8'$$

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

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

$$c = ?$$



$$\sin \beta = \frac{v_c}{a} = \frac{11}{18} = 0.61111111 \implies \beta = 37^\circ 40' 12''$$

$$\alpha = 180^\circ - \beta - \gamma = 70^\circ 11' 48''$$

$$c = \frac{a \cdot \sin \gamma}{\sin \alpha} = 18.2\text{cm}$$