

**Zadatak 21.** U trokutu  $\triangle ABC$  je  $a = 5.3$  cm,  $c = 6$  cm,  $v_c = 4.2$  cm. Kolika je duljina stranice  $b$  ovog trokuta?

**Rješenje.**

$$a = 5.3\text{cm}$$

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

$$v_c = 4.2\text{cm}$$

$$b = ?$$

$$\frac{v_c}{a} = \sin \beta$$

$$\sin \beta = \frac{4.2}{5.3} = 0.792453$$

$$\cos \beta = \pm \sqrt{1 - \sin^2 \beta} = \pm 0.609933$$

$$b^2 = a^2 + c^2 - 2ac \cdot \cos \beta$$

$$b_1^2 = 5.3^2 + 6^2 - 2 \cdot 5.3 \cdot 6 \cdot (-0.609933)$$

$$b_1 = 10.14\text{cm}$$

$$b_2^2 = 5.3^2 + 6^2 - 2 \cdot 5.3 \cdot 6 \cdot 0.609933$$

$$b_2 = 5.03\text{cm}$$

