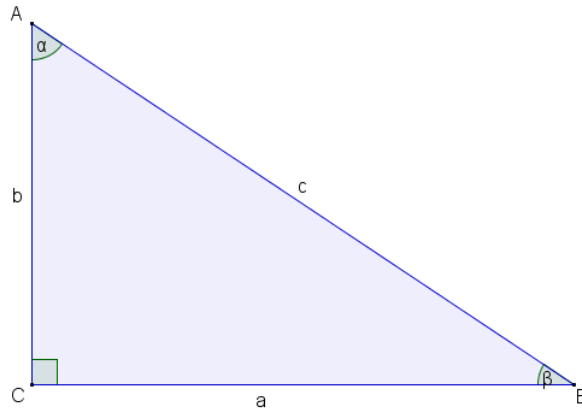


Andmed:

$$c = 4,8\text{cm}$$

$$\alpha = 51^{\circ}13'$$



Lahendus:

1. Leian puuduva teravnurga: $\alpha + \beta = 90^{\circ} \Rightarrow \beta = 90^{\circ} - \alpha$

$$\beta = 90^{\circ} - 51^{\circ}13' = 38^{\circ}47'$$

2. Leian kaateti a (kasutades algandmeid): $\sin \alpha = \frac{a}{c} \Rightarrow a = c \cdot \sin \alpha$

$$a = 4,8 \cdot \sin 51^{\circ}13' \approx 4,8 \cdot 0,7795 \approx 3,74(\text{cm})$$

3. Leian kaateti b (kasutades algandmeid): $\cos \alpha = \frac{b}{c} \Rightarrow b = c \cdot \cos \alpha$

$$b = 4,8 \cdot \cos 51^{\circ}13' \approx 4,8 \cdot 0,6264 \approx 3,0(\text{cm})$$

Kaateti b võib leida ka Pythagorase teoreemi abil: $b = \sqrt{c^2 - a^2}$

$$b = \sqrt{4,8^2 - 3,74^2} \approx 3,0(\text{cm})$$

4. Vastus: Kolmnurga kaatetid on 3,7 cm ja 3,0 cm ning teine teravnurk on $38^{\circ}47'$.