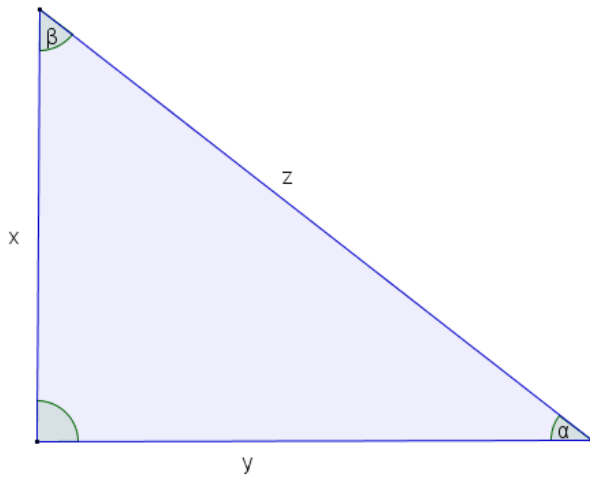


Andmed:

$$x = 9,3 \text{ cm}$$

$$\beta = 54^\circ$$



Lahendus:

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

$$\alpha = 90^\circ - 54^\circ = 36^\circ$$

2. Leian hüpoteenuusi z: $\cos \beta = \frac{x}{z} \Rightarrow z = \frac{x}{\cos \beta}$

$$z = \frac{9,3}{\cos 54^\circ} \approx \frac{9,3}{0,5878} \approx 15,82(\text{cm})$$

3. Leian kaateti y (kasutades algandmeid): $\tan \beta = \frac{y}{x} \Rightarrow y = x \cdot \tan \beta$

$$y = 9,3 \cdot \tan 54^\circ \approx 9,3 \cdot 1,3764 \approx 12,80(\text{cm})$$

Kaateti y võib leida ka Pythagorase teoreemi abil: $y = \sqrt{z^2 - x^2}$

$$y = \sqrt{15,82^2 - 9,3^2} \approx 12,80(\text{cm})$$

4. Vastus: Kolmnurga kaatet $y = 12,80$ cm, hüpoteenus $z = 15,82$ cm ja teine teravnurk on 36° .