

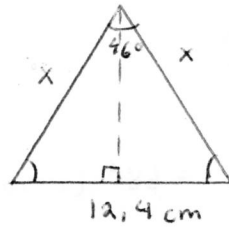
④ Kolmion kantakulma $\frac{180^\circ - 46^\circ}{2} = 67^\circ$

$$\cos 67^\circ = \frac{\frac{12,4}{2}}{x}$$

$$\cos 67^\circ = \frac{6,2}{x}$$

$$x \cdot \cos 67^\circ = 6,2$$

$$x = \frac{6,2}{\cos 67^\circ} \approx \underline{16 \text{ (cm)}}$$



⑤ Kosinilauseen mukaan

$$x^2 = 5,3^2 + 3,8^2 - 2 \cdot 5,3 \cdot 3,8 \cdot \cos 125^\circ$$

$$x \approx 8,101 \approx \underline{8,1 \text{ (m)}}$$

Sinilauseen mukaan

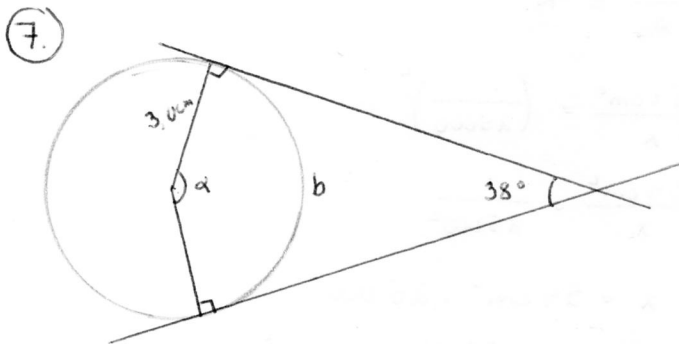
$$\frac{3,8}{\sin \alpha} = \frac{8,101}{\sin 125^\circ}$$

$$\sin \alpha = \frac{3,8 \cdot \sin 125^\circ}{8,101} \approx 0,384$$

$$\alpha \approx \underline{23^\circ}$$

Kolmas kulma $\beta = 180^\circ - (125^\circ + 23^\circ) = \underline{32^\circ}$

⑥ $A = \frac{243^\circ}{360^\circ} \cdot \pi \cdot (2,7 \text{ m})^2 \approx \underline{15 \text{ m}^2}$



Tangenttikulma + keskuskulma = 180°

$$\alpha + 38^\circ = 180^\circ$$

$$\alpha = \underline{142^\circ}$$

Kaaren pituus

$$b = \frac{142^\circ}{360^\circ} \cdot 2\pi \cdot 3,0 \text{ cm} \approx \underline{7,3 \text{ cm}}$$