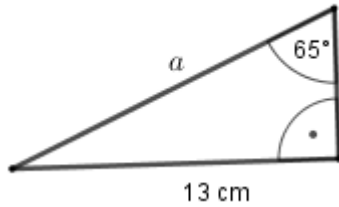


Solving right triangles - Answers

- Express the exact lengths of the sides marked with letters using trigonometric functions,
- Approximate the value a to the nearest 0.1 cm with the help of a calculator and trigonometric tables.



$$\sin(65^\circ) = \frac{13}{a}$$

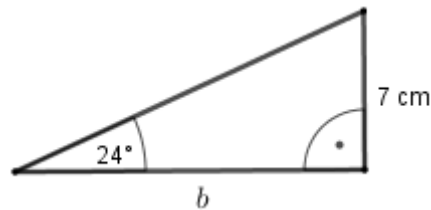
$$a \times \sin(65^\circ) = 13$$

$$a = \frac{13}{\sin(65^\circ)}$$

$$a \approx \frac{13}{0.9063}$$

$$a \approx 14.3440$$

$$a \approx 14.3$$

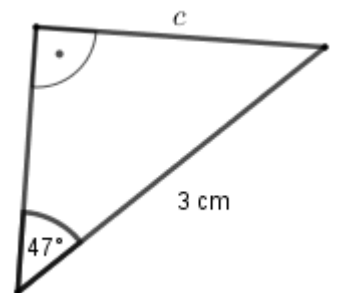


$$\frac{b}{7} = \text{ctg}(24^\circ)$$

$$b = 7 \times \text{ctg}(24^\circ)$$

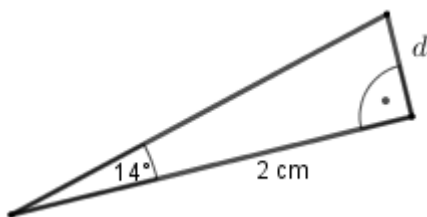
lub

$$b = \frac{7}{\text{tg}(24^\circ)}$$



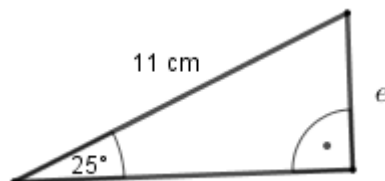
$$\frac{c}{3} = \sin(47^\circ)$$

$$c = 3 \times \sin(47^\circ)$$



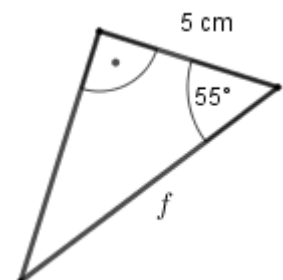
$$\frac{d}{2} = \text{tg}(14^\circ)$$

$$d = 2 \times \text{tg}(14^\circ)$$



$$\frac{e}{11} = \sin(25^\circ)$$

$$e = 11 \times \sin(25^\circ)$$



$$\cos(55^\circ) = \frac{5}{f}$$

$$f \times \cos(55^\circ) = 5$$

$$f = \frac{5}{\cos(55^\circ)}$$