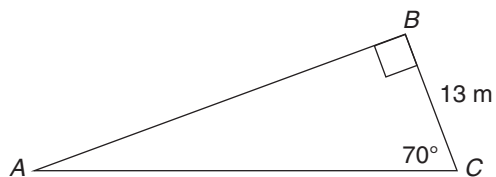


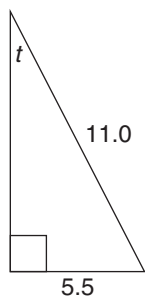


Check Up

1. Determine the length of AC , to the nearest tenth.



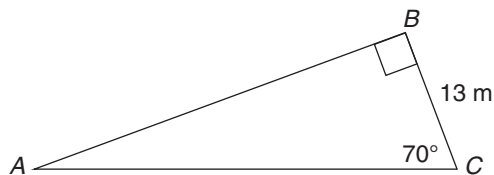
2. Determine the measure of angle t , to the nearest degree.





Check your answers.

1. Determine the length of AC , to the nearest tenth.



$$\cos 70^\circ = \frac{\text{length adjacent to } 70^\circ}{\text{hypotenuse}}$$

$$\cos 70^\circ = \frac{13 \text{ m}}{AC}$$

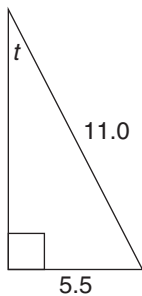
$$AC \cdot \cos 70^\circ = \frac{13 \text{ m}}{\cancel{AC}} \cdot \cancel{AC}$$

$$\frac{AC \cdot \cancel{\cos 70^\circ}}{\cancel{\cos 70^\circ}} = \frac{13 \text{ m}}{\cos 70^\circ}$$

$$AC = 38.009\dots \text{m}$$

$$AC \doteq 38.0 \text{ m}$$

2. Determine the measure of angle t , to the nearest degree.



$$\sin t = \frac{\text{length opposite } t}{\text{hypotenuse}}$$

$$\sin t = \frac{5.5}{11}$$

$$t = \sin^{-1}\left(\frac{5.5}{11}\right)$$

$$t = 30^\circ$$