

Diagram NOT  
accurately drawn

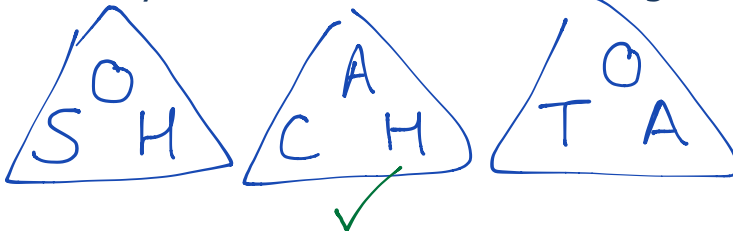
$ABC$  is a right-angled triangle.

$AC = 16\text{m}$

Angle  $CAB = 58^\circ$

Calculate the length of  $AB$

Give your answer correct to 3 significant figures.



$$\cos 58 = \frac{x}{16}$$

$$16 \times \cos 58 = x$$

$$x = 8.478708228$$

$$\dots 8.48 \dots \text{ m}$$

(3)

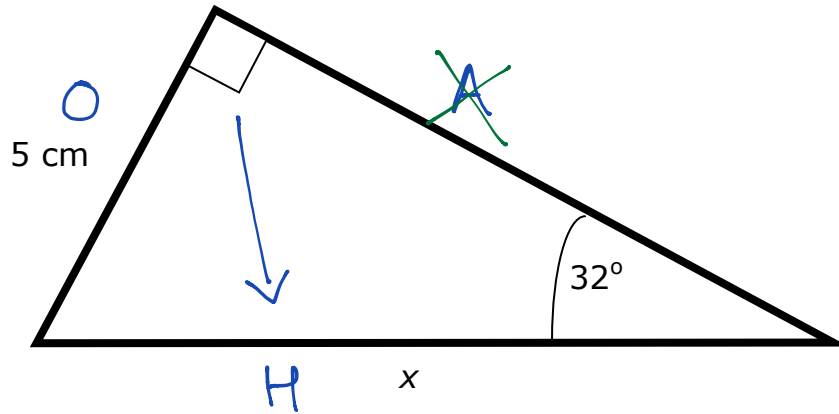


Diagram NOT  
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Calculate the length x  
Give your answer correct to 2 decimal places.

SOH CAH TOA  
✓

$$\sin 32 = \frac{5}{x}$$

$$x = \frac{5}{\sin 32}$$

$$= 9.435399574$$

9.44 cm

(3)

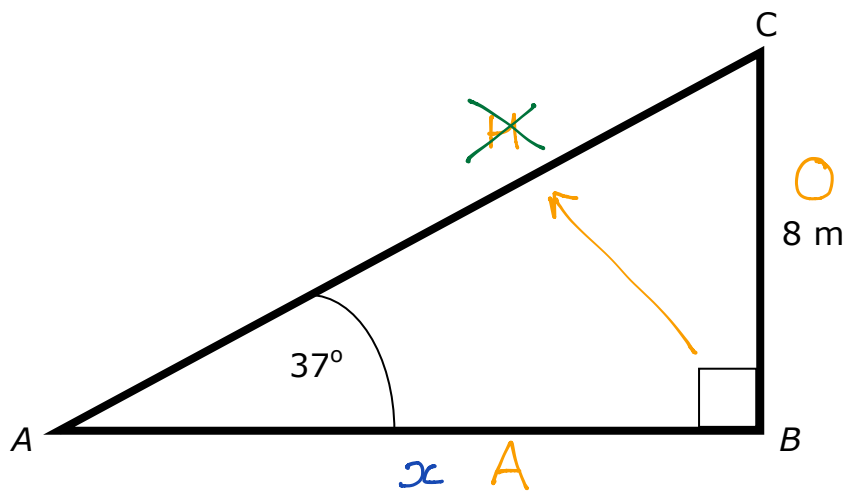


Diagram NOT  
accurately drawn

$ABC$  is a right-angled triangle.

$CB = 8 \text{ m}$

Angle  $CAB = 37^\circ$

Calculate the length of  $AB$

Give your answer correct to 3 significant figures.

$\text{SOH CAHTOA}$

$$\tan 37 = \frac{8}{x}$$

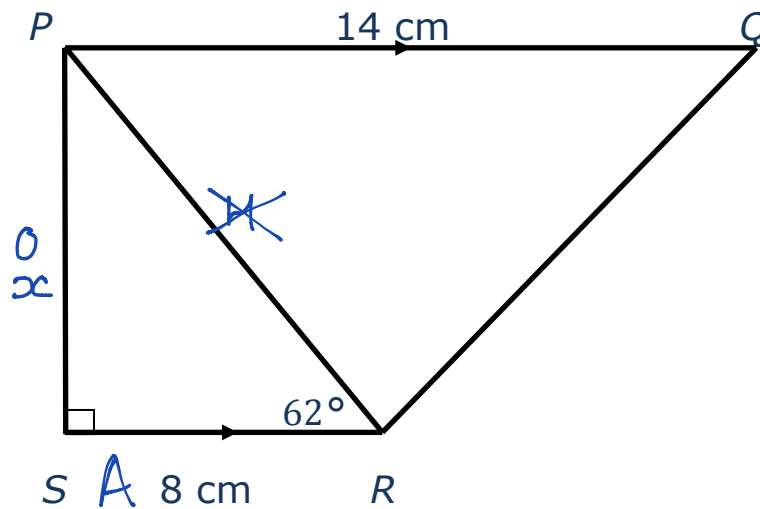
$$x = \frac{8}{\tan 37}$$

$$= 10.61635857$$

10.6 m

(3)

Diagram NOT drawn accurately



$PQRS$  is a trapezium.  
 $PQ$  is parallel to  $SR$ .  
 Angle  $PSR = 90^\circ$ .  
 Angle  $PRS = 62^\circ$ .  
 $PQ = 14$  cm.  
 $SR = 8$  cm.

a) Work out the length of  $PS$ . Give your answer correct to 3 significant figures.

S H C H T A  
 ✓

$$\tan 62 = \frac{x}{8}$$

$$8 \times \tan 62 = x \quad (3)$$

$$x = 15.04581172$$

$$x = 15.0 \text{ cm}$$