

## Geometry - Trigonometry Basic

Q1

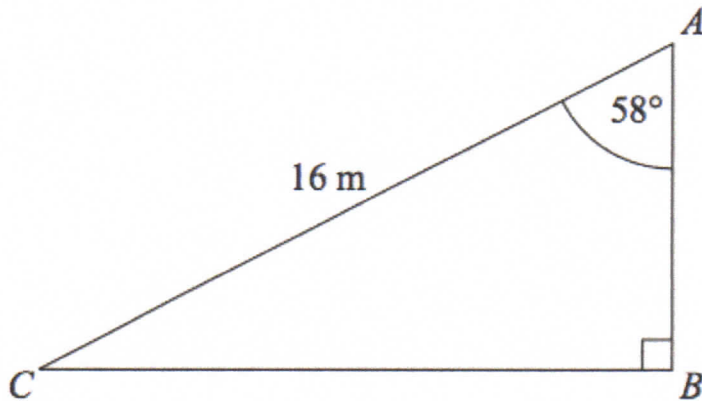


Diagram **NOT** accurately drawn

$ABC$  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.

[3]

Q2

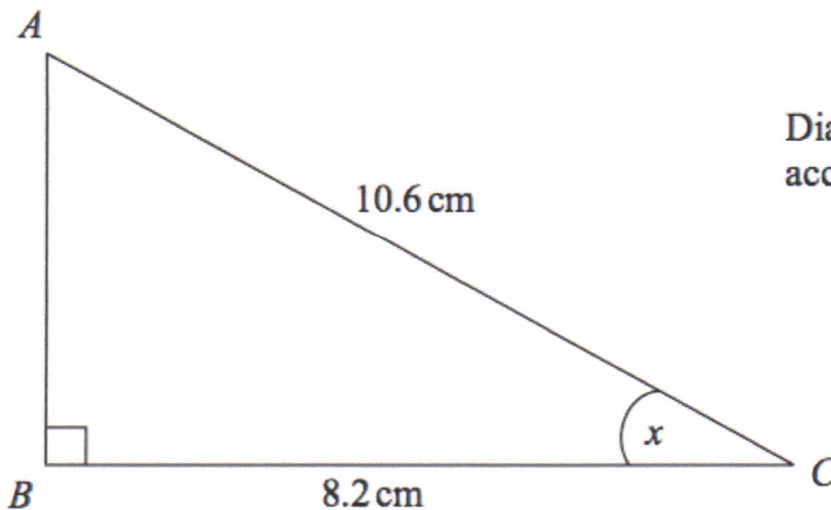


Diagram **NOT** accurately drawn

$ABC$  is a right-angled triangle.

$AC = 10.6\text{ cm}$ .

$BC = 8.2\text{ cm}$ .

Calculate the size of the angle marked  $x$ .

Give your answer correct to 3 significant figures.

[3]

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Q1

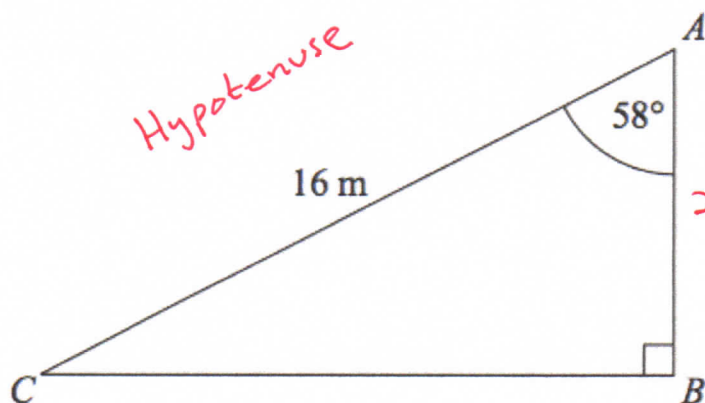


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$x$  Adjacent

$$\cos = \frac{A}{H}$$

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

$$16 \cos 58^\circ = x$$

$$x = 8.48 \text{ m to 3 s.f.}$$

$$AB = 8.48 \text{ m to 3 s.f.}$$

[3]

Q2

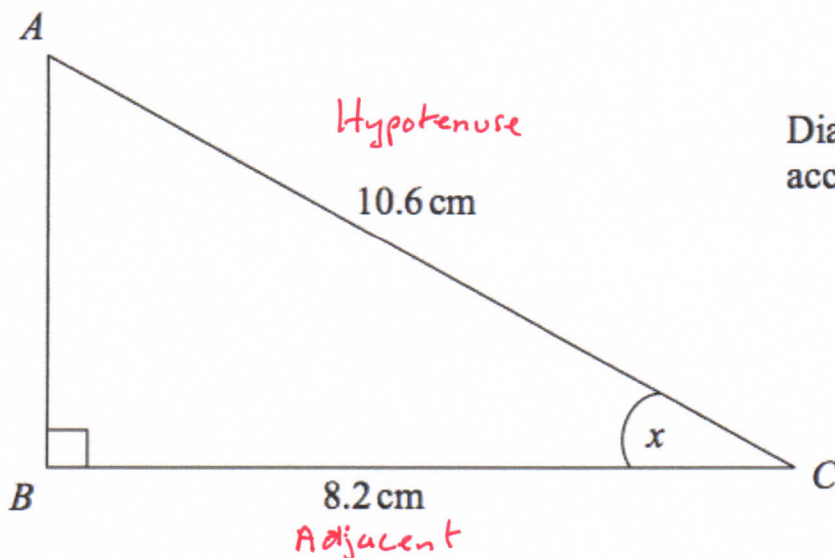


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Calculate the size of the angle marked  $x$ .

Give your answer correct to 3 significant figures.

$$\cos = \frac{A}{H}$$

$$\cos x = \frac{8.2}{10.6}$$

$$x = \cos^{-1} \left( \frac{8.2}{10.6} \right)$$

$$x = 39.3^\circ$$

to 3 s.f.

[3]