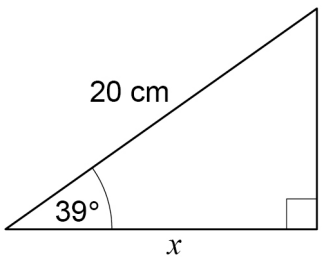
1 Use trigonometry to work out the value of x.

Not drawn accurately



[2 marks]

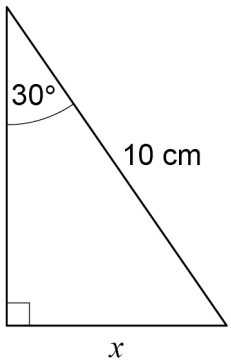
$\cos 39^\circ = \frac{x}{20}$

$x = 20 \cos 39^\circ$ (1)

$= 15.54\ldots$ (1)

Answer 15.5 cm

2 Here is a right-angled triangle.



Not drawn accurately

Use trigonometry to work out the value of x.

[3 marks]

$\sin 30^\circ = \frac{x}{10}$ (1)

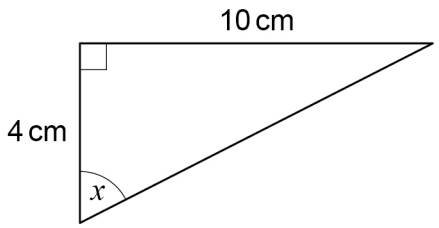
$x = 10 \sin 30^\circ$

$= 10\,(0.5)$ (1)

$= 5$ (1)

Answer 5 cm

3 Use trigonometry to work out the size of angle x.



Not drawn accurately

[3 marks]

$\tan x^\circ = \frac{10}{4}$ (1) (1)

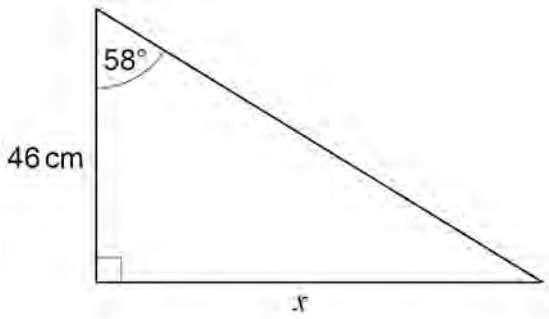
$x^\circ = \tan^{-1} 2.5$

$= 68.1^\circ$ (1)

$x =$ 68.1 °

4 Use trigonometry to work out the value of x.

Not drawn accurately



[3 marks]

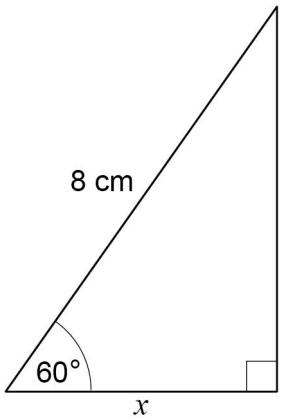
(1) $\tan 58^\circ = \frac{x}{46}$

$x = 46 \tan 58^\circ$ (1)

$= 73.6$ (1)

$x =$ 73.6 cm

5 Use trigonometry to work out the value of x.



Not drawn accurately

[3 marks]

$\cos 60^\circ = \frac{x}{8}$ (1)

$x = 8 \cos 60^\circ$ (1)

$= 8\left(\frac{1}{2}\right)$

$= 4$ (1)

$x =$ 4 cm