

1.

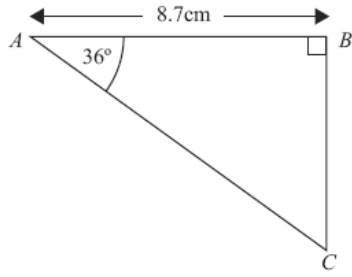


Diagram **NOT**  
accurately drawn

$ABC$  is a right-angled triangle.

Angle  $B = 90^\circ$ .

Angle  $A = 36^\circ$ .

$AB = 8.7$  cm.

Work out the length of  $BC$ .

Give your answer correct to 3 significant figures.

..... cm  
(3 marks)

2.

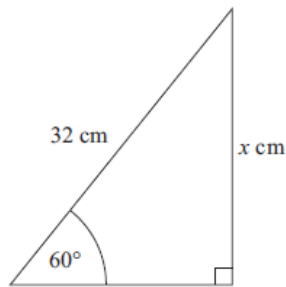


Diagram **NOT**  
accurately drawn

Calculate the value of  $x$ .

Give your answer correct to 3 significant figures.

.....  
(3 marks)

3.

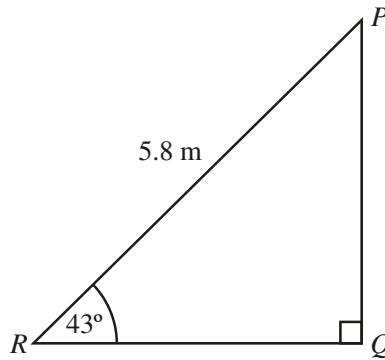


Diagram **NOT** accurately drawn

$PQR$  is a triangle.  
Angle  $Q = 90^\circ$ .  
Angle  $R = 43^\circ$ .  
 $PR = 5.8 \text{ m}$ .

Calculate the length of  $QR$ .  
Give your answer correct to 3 significant figures.

..... m

**(3 marks)**

4.

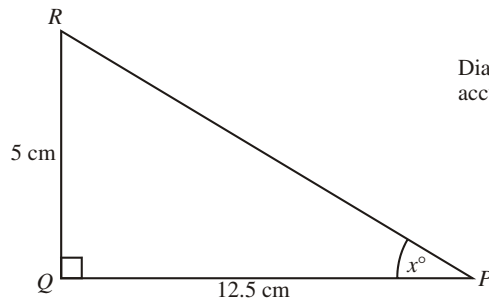


Diagram **NOT** accurately drawn

$PQR$  is a triangle.  
Angle  $PQR = 90^\circ$ .  
 $PQ = 12.5 \text{ cm}$ .  
 $QR = 5 \text{ cm}$ .

Calculate the value of  $x$ .  
Give your answer correct to 1 decimal place.

.....

**(3 marks)**

5.

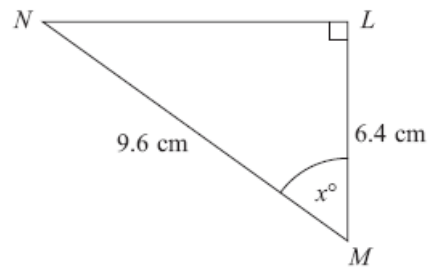


Diagram **NOT** accurately drawn

$LMN$  is a right-angled triangle.

$MN = 9.6 \text{ cm}$ .

$LM = 6.4 \text{ cm}$ .

Calculate the size of the angle marked  $x^\circ$ .

Give your answer correct to 1 decimal place.

.....<sup>o</sup>

**(3 marks)**

6.

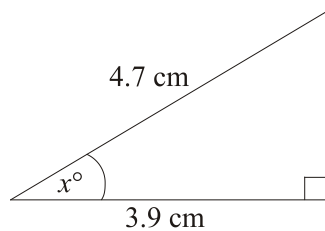


Diagram **NOT** accurately drawn

Work out the value of  $x$ .

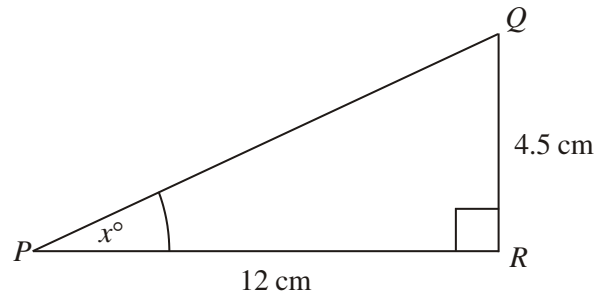
Give your answer correct to 1 decimal place.

$x = \dots\dots\dots$

(3 marks)

7.

Diagram **NOT**  
accurately drawn



$PQR$  is a right-angled triangle.

$PR = 12$  cm.

$QR = 4.5$  cm.

Angle  $PRQ = 90^\circ$ .

Work out the value of  $x$ .

Give your answer correct to one decimal place.

$x = \dots\dots\dots$

(3 marks)

8. Calculate the size of angle  $a$  in this right-angled triangle.  
Give your answer correct to 3 significant figures.

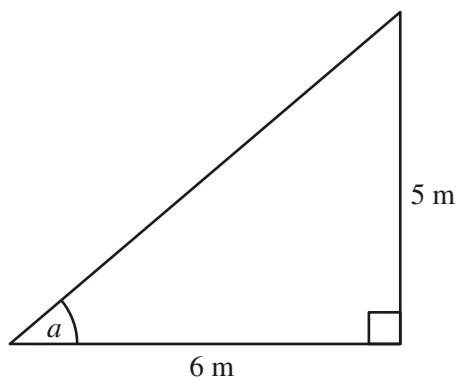


Diagram **NOT**  
accurately drawn

$\dots\dots\dots$

(3 marks)

9.  $PQR$  is a right-angled triangle.

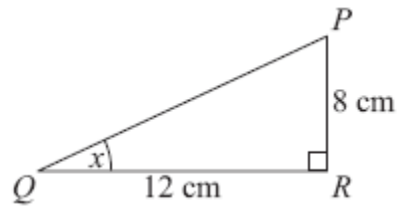


Diagram **NOT** accurately drawn

$PR = 8\text{ cm}$ .  
 $QR = 12\text{ cm}$ .

- (a) Find the size of the angle marked  $x$ .  
Give your answer correct to 1 decimal place.

.....<sup>o</sup>  
(3)

$XYZ$  is a different right-angled triangle.

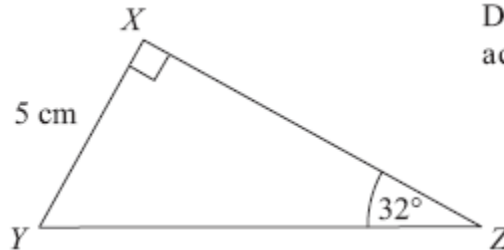


Diagram **NOT** accurately drawn

$XY = 5\text{ cm}$ .  
Angle  $Z = 32^\circ$ .

- (b) Calculate the length  $YZ$ .  
Give your answer correct to 3 significant figures.

..... cm  
(3)

(6 marks)

10. The diagram shows a quadrilateral  $ABCD$ .

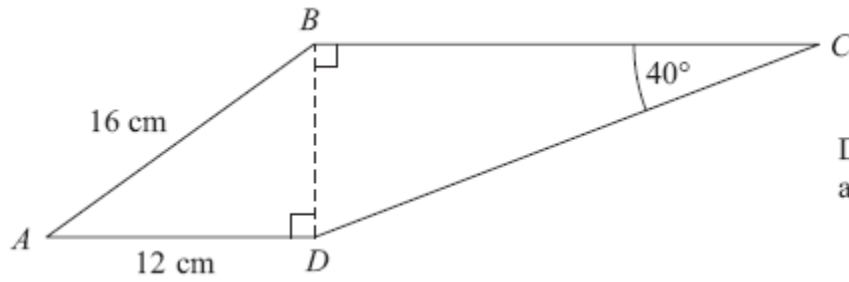


Diagram **NOT** accurately drawn

$$AB = 16\text{ cm.}$$

$$AD = 12\text{ cm.}$$

$$\text{Angle } BCD = 40^\circ.$$

$$\text{Angle } ADB = \text{angle } CBD = 90^\circ.$$

Calculate the length of  $CD$ .

Give your answer correct to 3 significant figures.

..... cm

(5 marks)

11.

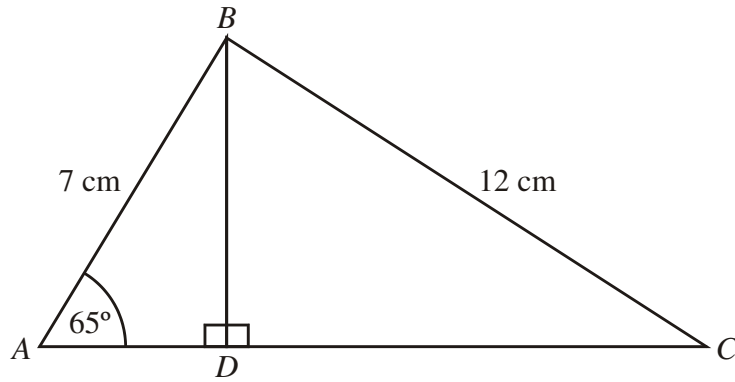


Diagram **NOT**  
accurately drawn

$ABC$  is a triangle.  
 $ADC$  is a straight line with  $BD$  perpendicular to  $AC$ .  
 $AB = 7$  cm.  
 $BC = 12$  cm.  
Angle  $BAD = 65^\circ$ .

Calculate the length of  $AC$ .  
Give your answer correct to 3 significant figures.

..... cm

**(6 marks)**