

1 Here is a right-angled triangle.

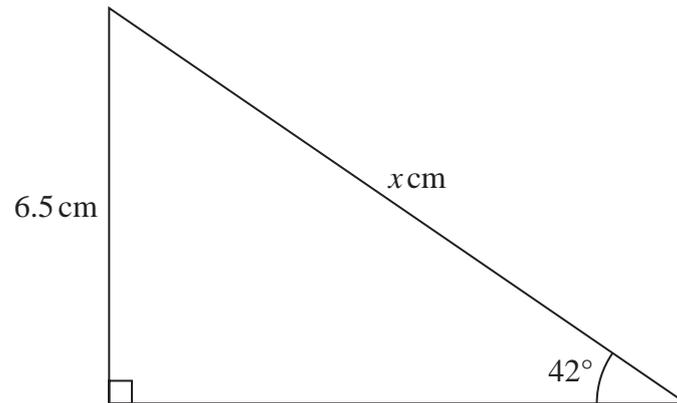


Diagram **NOT**  
accurately drawn

Work out the value of  $x$ .

Give your answer correct to one decimal place.

By using sine rule :

$$\frac{x}{\sin 90^\circ} = \frac{6.5}{\sin 42^\circ} \quad (1)$$

$$x = \frac{6.5}{0.669} \quad (1)$$

$$= 9.7 \quad (1)$$

$$x = \dots\dots\dots 9.7 \dots\dots\dots$$

(Total for Question 1 is 3 marks)

2 The diagram shows triangle  $ABC$

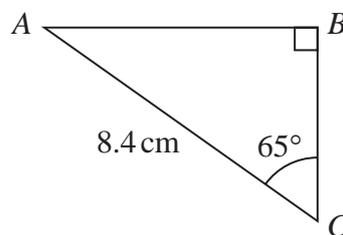


Diagram **NOT**  
accurately drawn

Work out the length of the side  $AB$   
Give your answer correct to 3 significant figures.

$$\frac{AB}{\sin 65^\circ} = \frac{8.4}{\sin 90^\circ} \quad (1)$$

$$AB = \frac{8.4}{\sin 90^\circ} \times \sin 65^\circ \quad (1)$$

$$= 7.61 \quad (1)$$

7.61

..... cm

(Total for Question 2 is 3 marks)