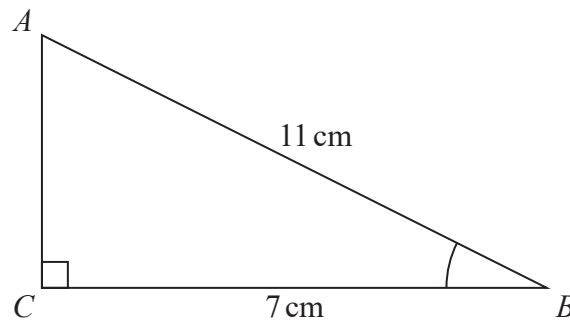


1  $ABC$  is a right-angled triangle.



- (a) Work out the size of angle  $ABC$ .  
Give your answer correct to 1 decimal place.

.....  
(2)

The length of the side  $AB$  is reduced by 1 cm.

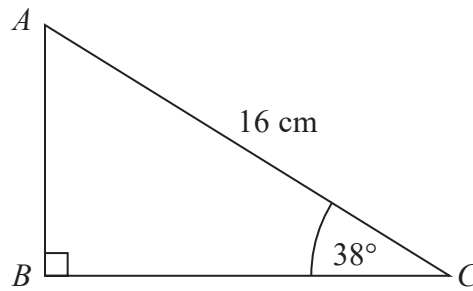
The length of the side  $BC$  is still 7 cm.  
Angle  $ACB$  is still  $90^\circ$

- (b) Will the value of  $\cos ABC$  increase or decrease?  
You must give a reason for your answer.

.....  
.....  
(1)

**(Total for Question 1 is 3 marks)**

2  $ABC$  is a right-angled triangle.

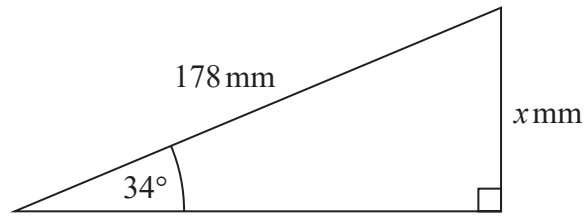


Calculate the length of  $AB$ .  
Give your answer correct to 2 decimal places.

.....cm

(Total for Question 2 is 2 marks)

3

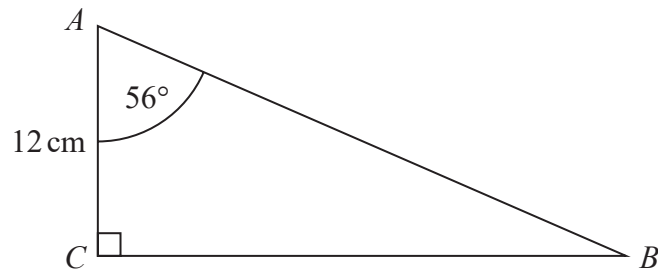


Work out the value of  $x$ .  
Give your answer correct to 1 decimal place.

.....  
(Total for Question 3 is 2 marks)

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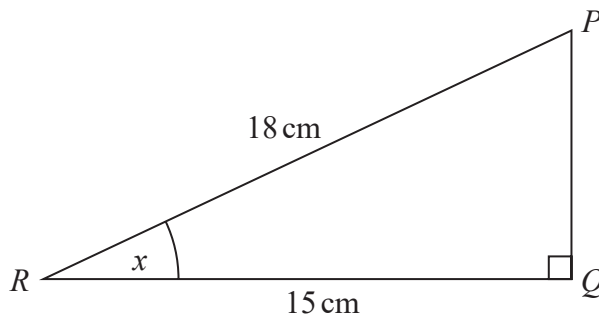
4  $ABC$  is a right-angled triangle.



- (a) Work out the length of  $BC$ .  
Give your answer correct to 1 decimal place.

..... cm  
(2)

$PQR$  is a right-angled triangle.

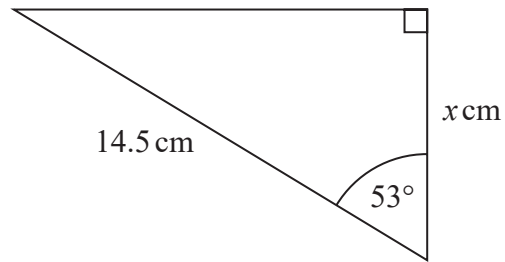


- (b) Work out the size of the angle marked  $x$ .  
Give your answer correct to 1 decimal place.

.....  
(2)

(Total for Question 4 is 4 marks)

5



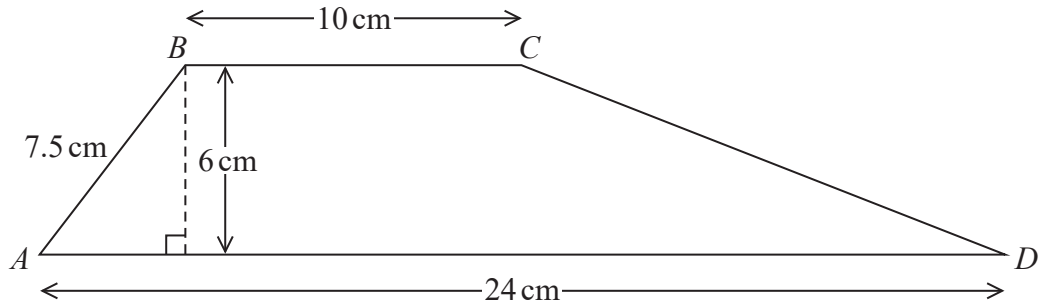
Work out the value of  $x$ .  
Give your answer correct to 3 significant figures.

$x = \dots\dots\dots$

**(Total for Question 5 is 2 marks)**

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6  $ABCD$  is a trapezium.

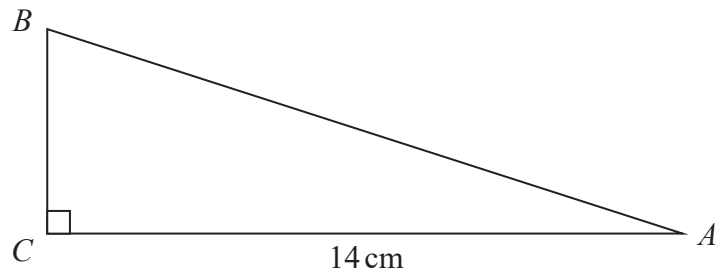


Work out the size of angle  $CDA$ .

Give your answer correct to 1 decimal place.

.....  
(Total for Question 6 is 5 marks)

7  $ABC$  is a right-angled triangle.



$AC = 14$  cm.

Angle  $C = 90^\circ$

size of angle  $B$  : size of angle  $A = 3 : 2$

Work out the length of  $AB$ .

Give your answer correct to 3 significant figures.

.....cm

(Total for Question 7 is 4 marks)

8 Write down the value of  $\sin 30^\circ$

.....

**(Total for Question 8 is 1 mark)**

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