

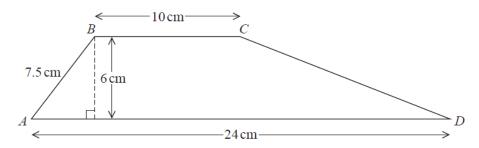
Calculate the length of AB.

Give your answer correct to 3 significant figures.

.....cm

(Total for Question is 2 marks)

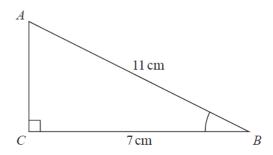
2 ABCD is a trapezium.



Work out the size of angle *CDA*. Give your answer correct to 1 decimal place.

.....

(Total for Question is 5 marks)



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



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

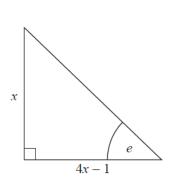
The length of the side BC is still 7 cm. Angle ACB is still 90°

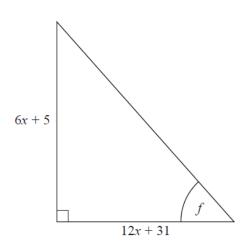
(b) Will the value of cos *ABC* increase or decrease? You must give a reason for your answer.

(1)

(Total for Question is 3 marks)

4 Here are two right-angled triangles.





Given that

$$\tan e = \tan f$$

find the value of x.

You must show all your working.

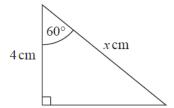
.....

(Total for Question is 5 marks)

5 (a) Write down the exact value of $\tan 45^{\circ}$

(1)

Here is a right-angled triangle.



 $\cos 60^{\circ} = 0.5$

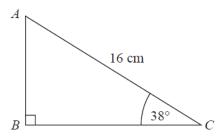
(b) Work out the value of x.

(2)

(Total for Question is 3 marks)

6 Find the exact value of $\tan 30^{\circ} \times \sin 60^{\circ}$

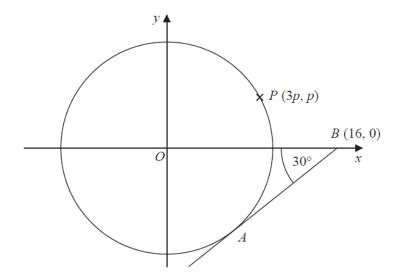
	(Total for Question	



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

	cm
(Total for Question	is 2 marks)

8 The diagram shows a circle, centre *O*.



AB is the tangent to the circle at the point A. Angle $OBA = 30^{\circ}$

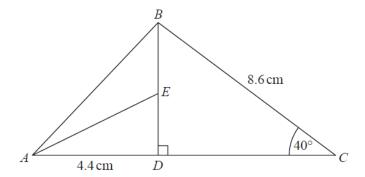
Point B has coordinates (16, 0)Point P has coordinates (3p, p)

Find the value of p. Give your answer correct to 1 decimal place. You must show all your working.

p =

(Total for Question is 4 marks)

9 The diagram shows triangle *ABC*.



ADC and DEB are straight lines.

 $AD = 4.4 \,\mathrm{cm}$

 $BC = 8.6 \,\mathrm{cm}$

E is the midpoint of DB.

Angle $CDB = 90^{\circ}$

Angle $DCB = 40^{\circ}$

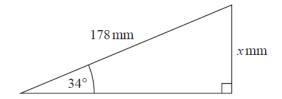
Work out the size of angle *EAD*.

Give your answer correct to 1 decimal place.

You must show all your working.

(Total for Question is 4 marks)

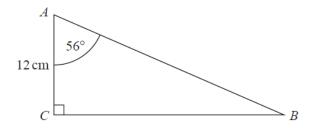
10



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

.....

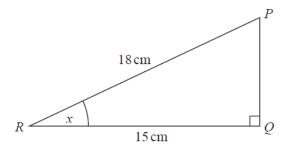
(Total for Question is 2 marks)



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



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 is 4 marks)