



Area of a Triangle (Trigonometry)



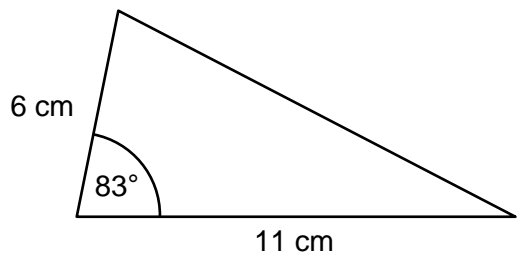
SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 Work out the area of the triangle.

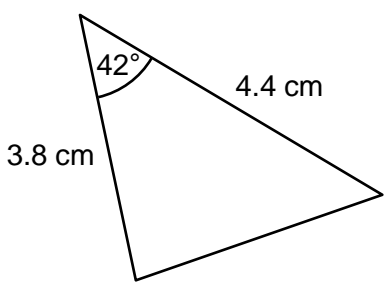


Not drawn accurately

[2 marks]

Answer _____ cm²

2 Work out the area of the triangle.



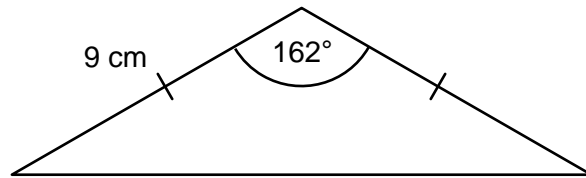
Not drawn accurately

[2 marks]

Answer _____ cm²



3 Work out the area of the triangle.

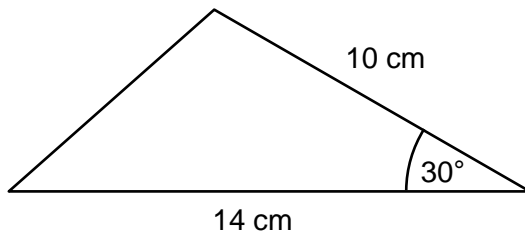


Not drawn accurately

[2 marks]

Answer _____ cm²

4 Work out the area of the triangle.



Not drawn accurately



[3 marks]

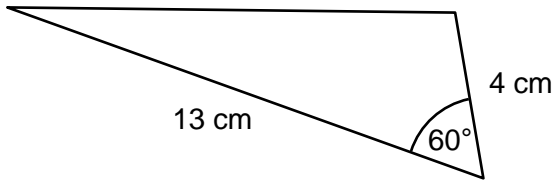
Answer _____ cm²





5

Work out the area of the triangle.
Give your answer in the form $k\sqrt{3}$, where k is an integer.



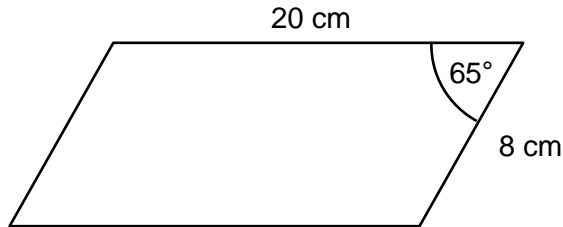
Not drawn accurately

[3 marks]

Answer _____ cm^2

6

Work out the area of the parallelogram.



Not drawn accurately

[3 marks]

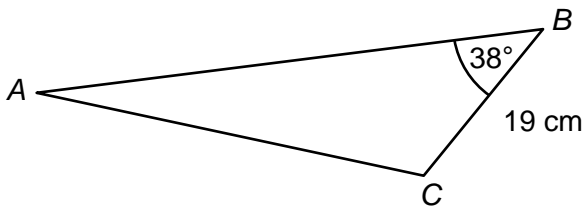
Answer _____ cm^2

Turn over ►





7 The area of triangle ABC is 350 cm^2



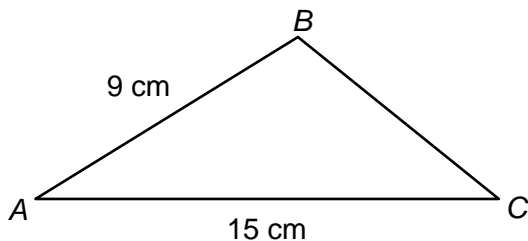
Not drawn accurately

Work out the length of AB .

[3 marks]

Answer _____ cm

8 The area of triangle ABC is 23 cm^2



Not drawn accurately

Work out the size of the acute angle, BAC .

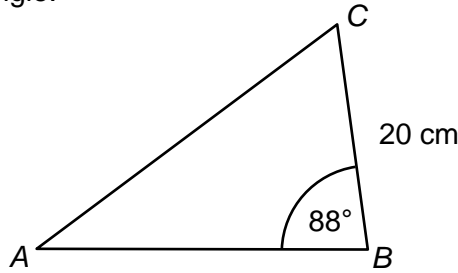
[3 marks]

Answer _____ °





9 *ABC* is a triangle.



Not drawn accurately

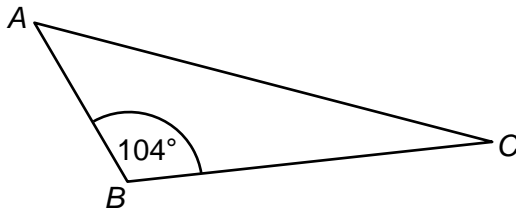
$AB : BC = 8 : 5$

Work out the area of triangle *ABC*.

[3 marks]

Answer _____ cm²

10 *ABC* is a triangle.



Not drawn accurately

$AB : BC = 1 : 3$

The area of triangle *ABC* is 123 cm²

Work out the length of *AB*.

[3 marks]

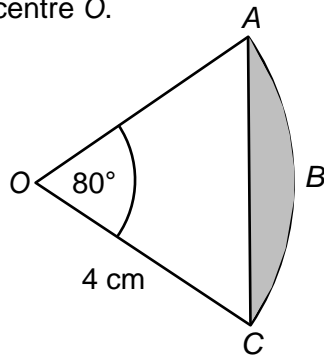
Answer _____ cm

12

Turn over ►



11 $OABC$ is a sector with centre O .



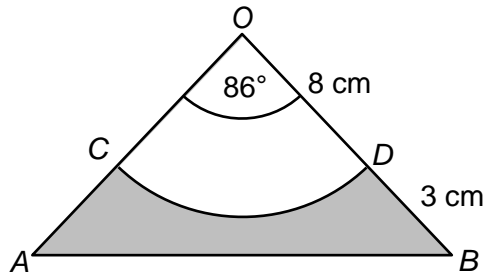
Not drawn accurately

Calculate the area of the shaded region.

[4 marks]

Answer _____ cm^2

12 AOB is an isosceles triangle with $OA = OB$
 COD is a sector, centre O .



Work out the area of the shaded region.

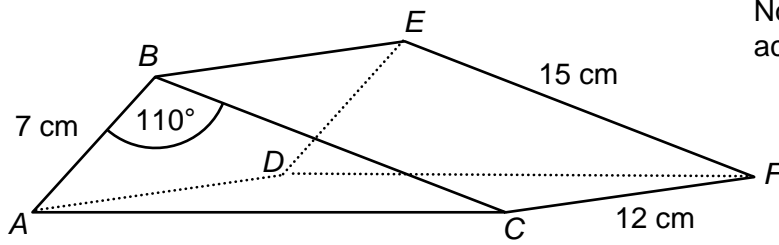
[4 marks]

Answer _____ cm^2





13 *ABCDEF* is a triangular prism.



Not drawn accurately

The prism has a mass of 0.5 kg.
 Calculate the density of the prism in g/cm^3
 Give your answer to 3 significant figures.

[5 marks]

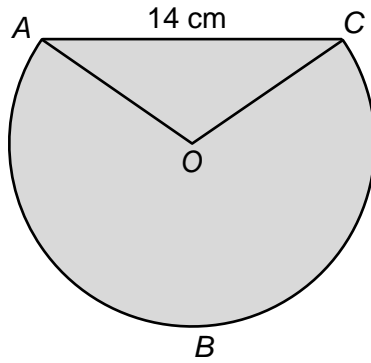
Answer _____ g/cm^3

Turn over ►





14 $ABCO$ is a sector with centre O .



Not drawn accurately

The perimeter of triangle AOC is 30 cm .
Calculate the shaded area.

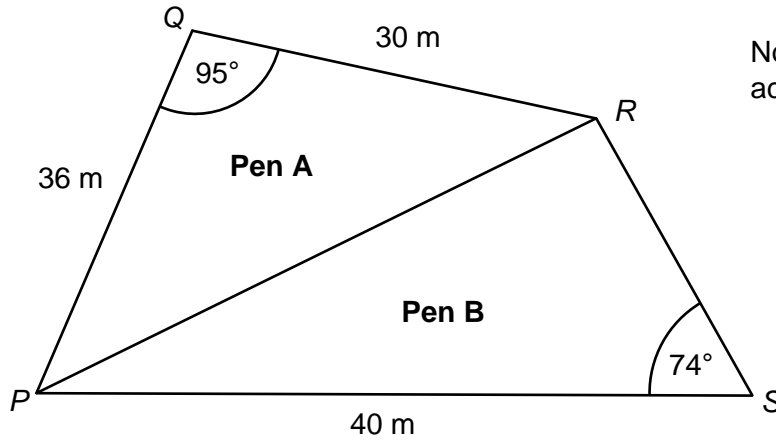
[6 marks]

Answer _____ cm^2



15

$PQRS$ is a farmer's field that is split into two pens.



Not drawn accurately

Area of **Pen A** = Area of **Pen B**.

A fence is placed around the perimeter of the field and along the line PR .

Work out, to the nearest metre, the total length of all the fencing.

[6 marks]

Answer _____ m

$\frac{\quad}{12}$

