



Area of a Triangle (Trigonometry)



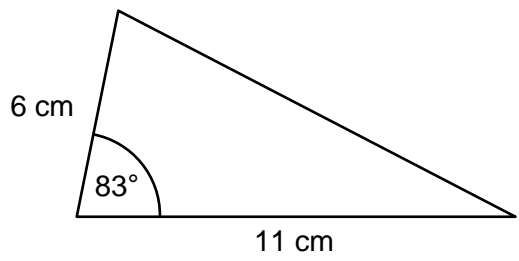
SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 Work out the area of the triangle.

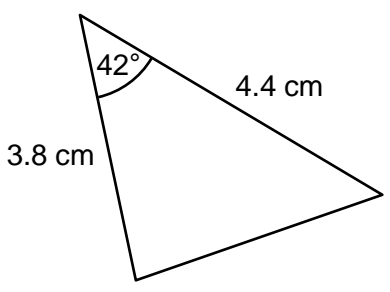


Not drawn accurately

[2 marks]

Answer _____ cm²

2 Work out the area of the triangle.



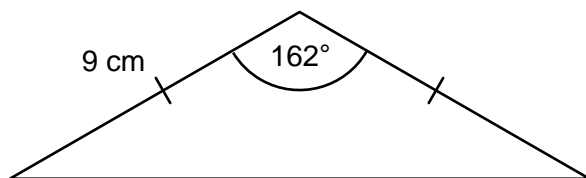
Not drawn accurately

[2 marks]

Answer _____ cm²



3 Work out the area of the triangle.

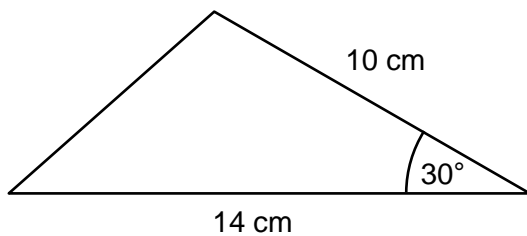


Not drawn accurately

[2 marks]

Answer _____ cm²

4 Work out the area of the triangle.



Not drawn accurately



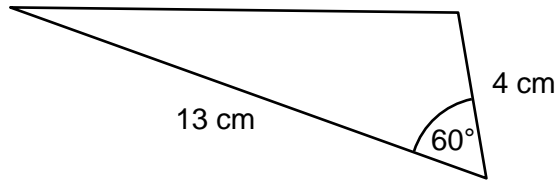
[3 marks]

Answer _____ cm²



5

Work out the area of the triangle.

Give your answer in the form $k\sqrt{3}$, where k is an integer.

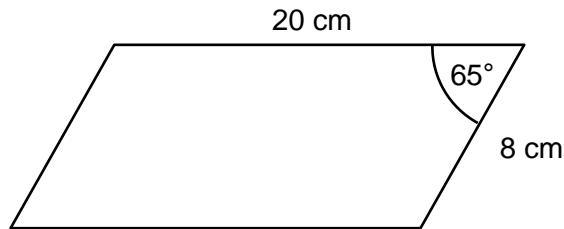
Not drawn accurately

**[3 marks]**

Answer _____ cm^2

6

Work out the area of the parallelogram.



Not drawn accurately

[3 marks]

Answer _____ cm^2

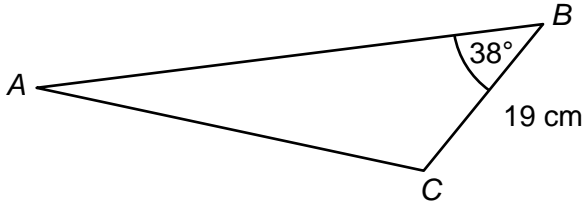
11

Turn over ►





7 The area of triangle ABC is 350 cm^2



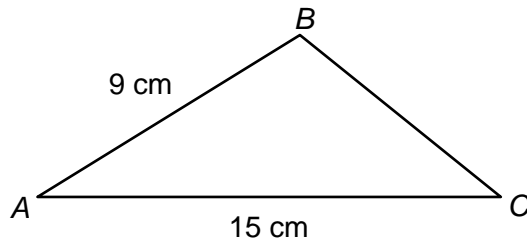
Not drawn accurately

Work out the length of AB .

[3 marks]

Answer _____ cm

8 The area of triangle ABC is 23 cm^2



Not drawn accurately

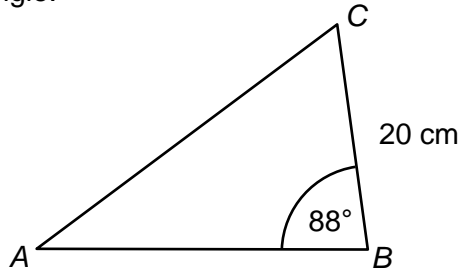
Work out the size of the acute angle, BAC .

[3 marks]

Answer _____ °



9 ABC is a triangle.



Not drawn accurately

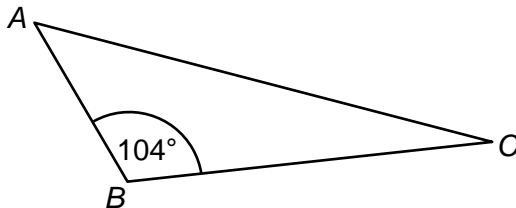
$$AB : BC = 8 : 5$$

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]

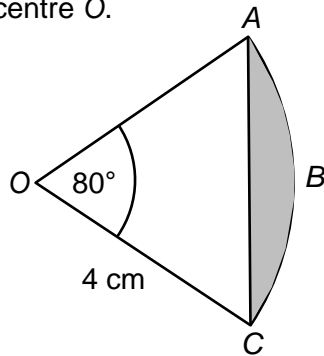
Answer _____ cm

$\frac{1}{12}$

Turn over ►



- 11 $OABC$ is a sector with centre O .



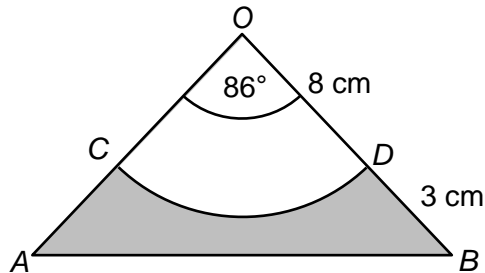
Not drawn
accurately

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 .



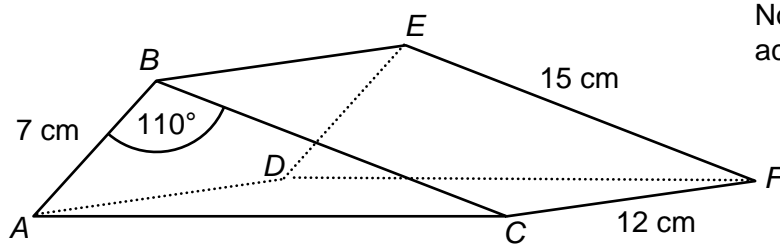
Work out the area of the shaded region.

[4 marks]

Answer _____ cm^2



13 $ABCDEF$ is a triangular prism.



Not drawn accurately

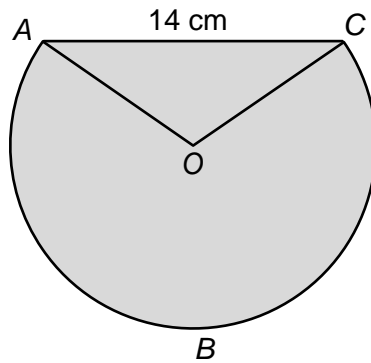
The prism has a mass of 0.5 kg.
Calculate the density of the prism in g/cm^3
Give your answer to 3 significant figures.

[5 marks]

Answer _____ g/cm^3



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

