

KumarMaths

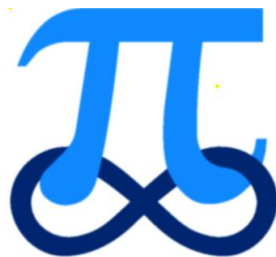
Pearson Edexcel

GCSE Maths (9 – 1)

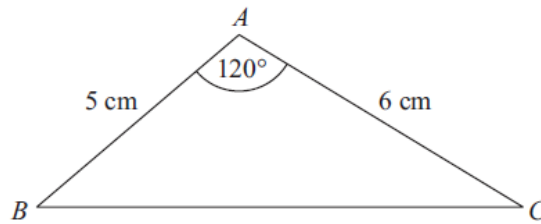
Past Exam Questions by

Topics: Advanced

Trigonometry.



1.



Calculate the length of the side BC .

Give your answer correct to 3 significant figures.

..... cm

(3 marks)

2. Here is a parallelogram.

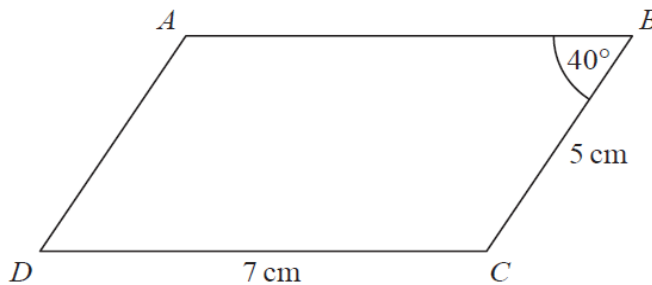


Diagram **NOT**
accurately drawn

$DC = 7$ cm, $CB = 5$ cm, Angle ABC is 40°

Work out the area of the parallelogram.

Give your answer correct to 1 decimal place.

..... cm^2

(3 marks)

3. Here is a triangle ABC .

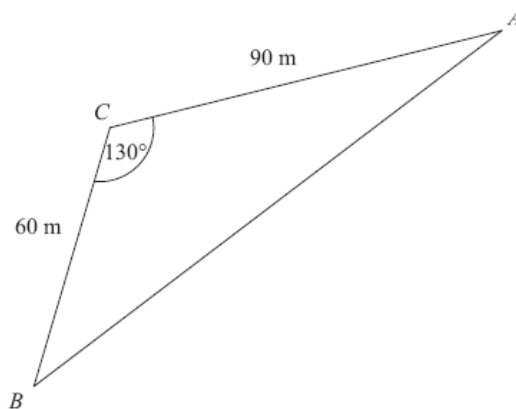


Diagram **NOT** accurately drawn

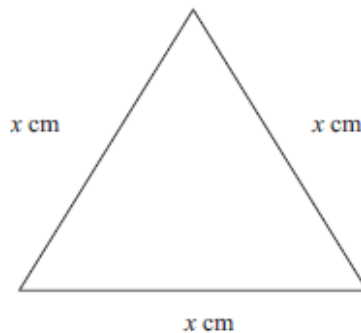
$AC = 90$ m., $BC = 60$ m., Angle $ACB = 130^\circ$.

Calculate the perimeter of the triangle. Give your answer correct to one decimal place.

..... m

(4 marks)

4. The diagram shows an equilateral triangle.



The area of the equilateral triangle is 36 cm². Find the value of x .

Give your answer correct to 3 significant figures.

$x =$

(3 marks)

5. ABC is a triangle.

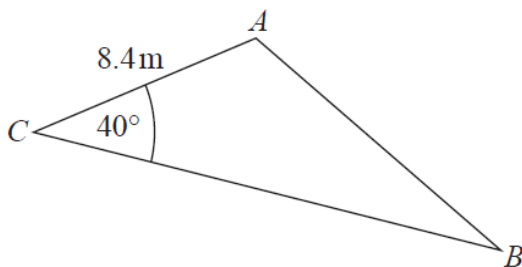


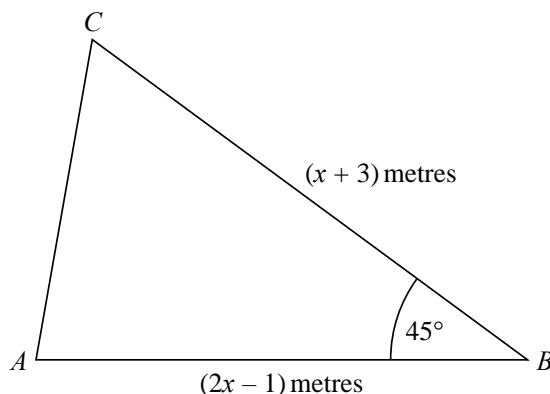
Diagram **NOT** accurately drawn

$AC = 8.4$ m, Angle $ACB = 40^\circ$. The area of the triangle = 100 m^2 .
Work out the length of AB .
Give your answer correct to 3 significant figures.

..... m

(5 marks)

6.

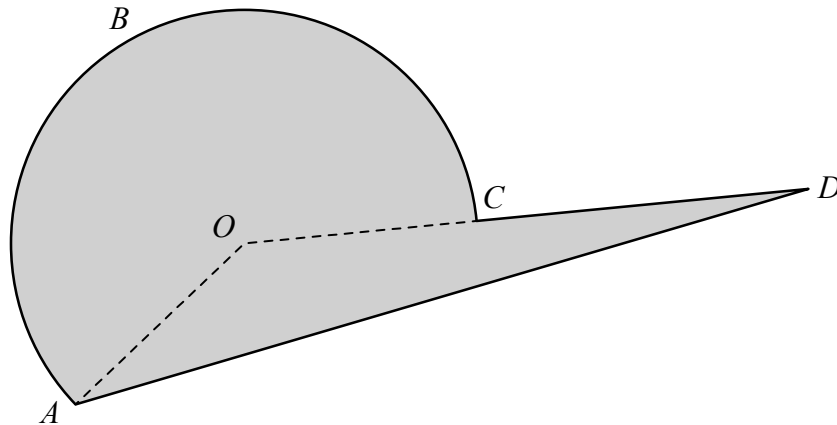


The area of triangle ABC is $6\sqrt{2} \text{ m}^2$. Calculate the value of x . Give your answer correct to 3 significant figures.

.....

(5 marks)

7. Here is a shaded shape $ABCD$.



The shape is made from a triangle and a sector of a circle, centre O and radius 6 cm.
 OCD is a straight line.

$$AD = 14 \text{ cm}$$

$$\text{Angle } AOD = 140^\circ$$

$$\text{Angle } OAD = 24^\circ$$

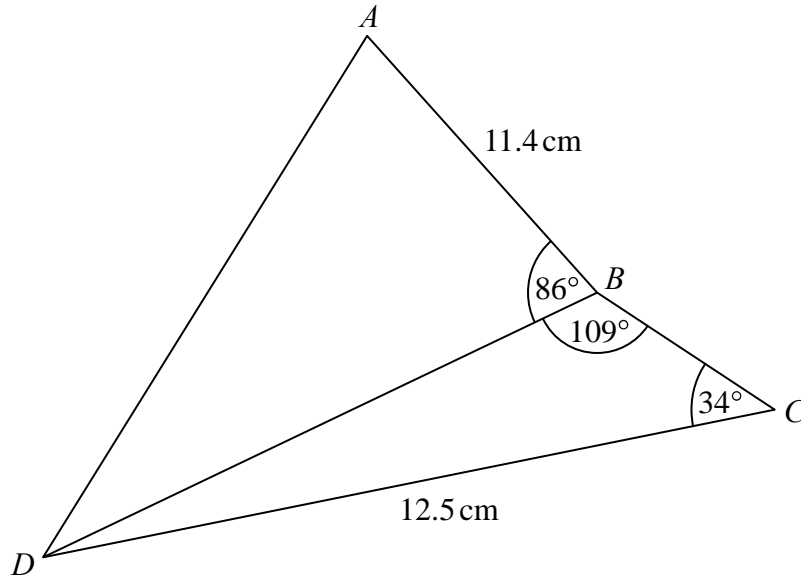
Calculate the perimeter of the shape.

Give your answer correct to 3 significant figures.

.....cm

(5 marks)

8.

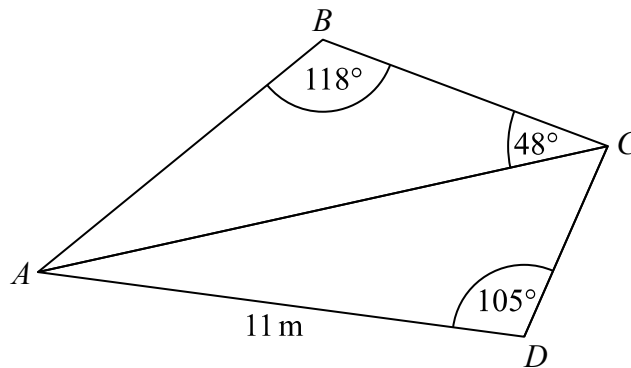


Work out the length of AD .
Give your answer correct to 3 significant figures.

..... cm

(5 marks)

9. ABC and ADC are triangles.



The area of triangle ADC is 56 m^2

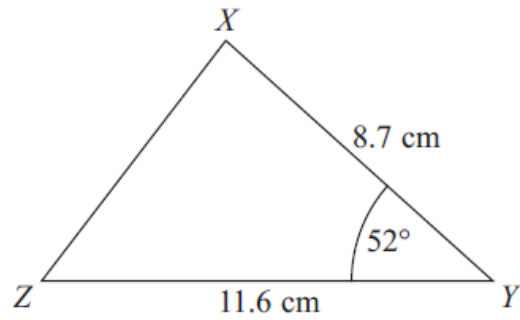
Work out the length of AB .

Give your answer correct to 1 decimal place.

..... m

(5 marks)

10.



In the triangle XYZ

$XY = 8.7$ cm,

$YZ = 11.6$ cm,

Angle $XYZ = 52^\circ$

(a) Work out the area of triangle XYZ .

Give your answer correct to 3 significant figures.

..... cm^2
(2)

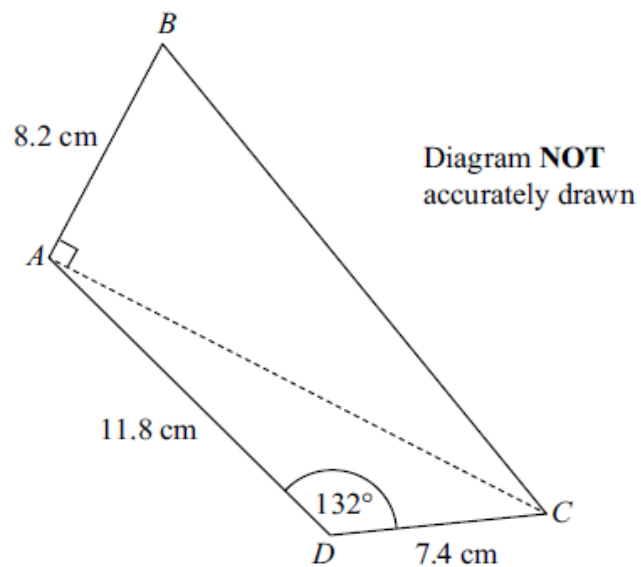
(b) Work out the length of XZ .

Give your answer correct to 3 significant figures.

..... cm
(3)

(5 marks)

11.



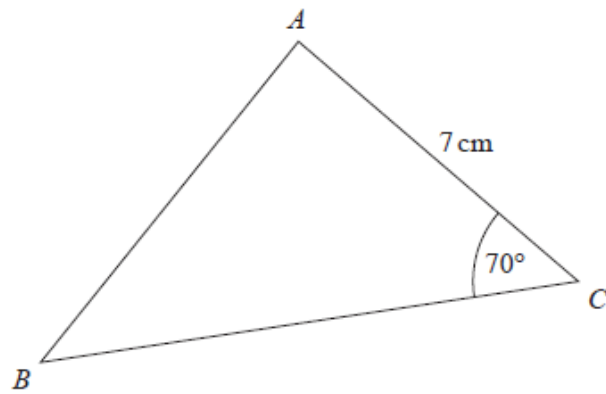
Work out the area of the quadrilateral $ABCD$.

Give your answer correct to 3 significant figures.

..... cm^2

(6 marks)

12.



The area of triangle ABC is 42 cm^2

Find the length of AB .

Give your answer correct to 3 significant figures.

..... cm

(5 marks)