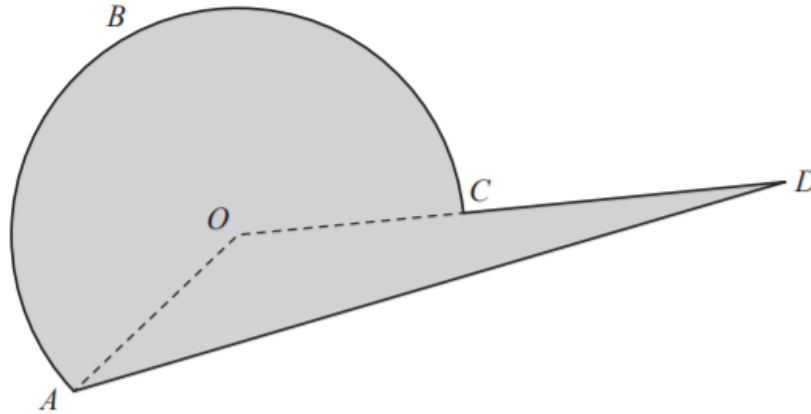


Sine & Cos Rule Past Paper Questions GCSE Edexcel - Calculator

1.

i 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.

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

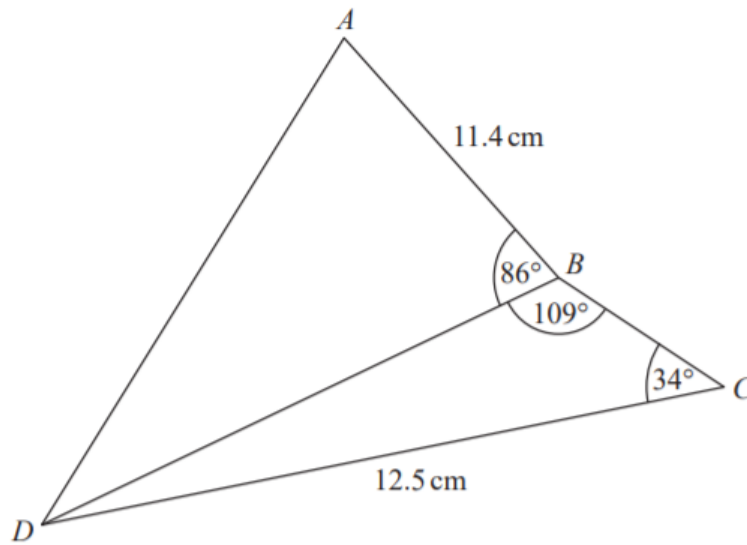
$$\text{Angle } AOD = 140^\circ$$

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

Calculate the perimeter of the shape.

Give your answer correct to 3 significant figures.

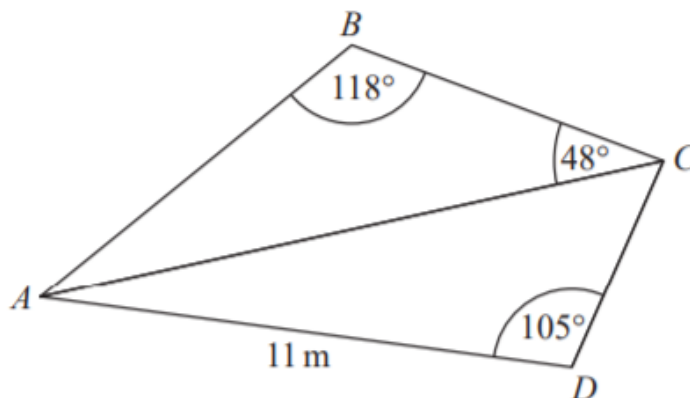
2.



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

3.

ABC and ADC are triangles.

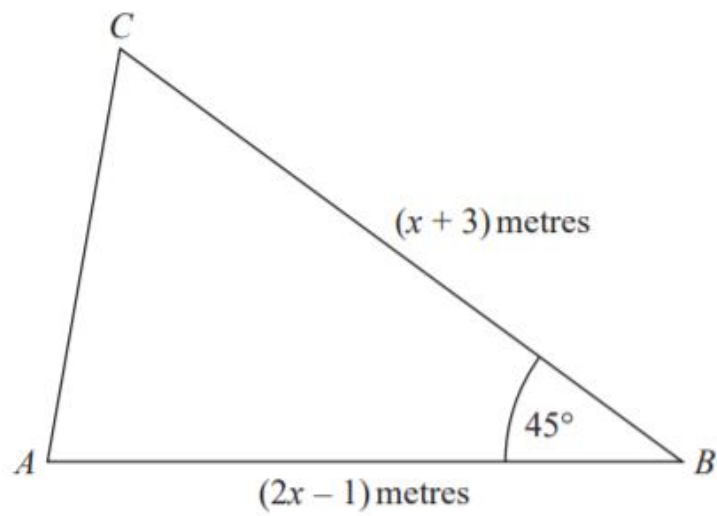


The area of triangle ADC is 56 m^2

Work out the length of AB .

Give your answer correct to 1 decimal place.

4.

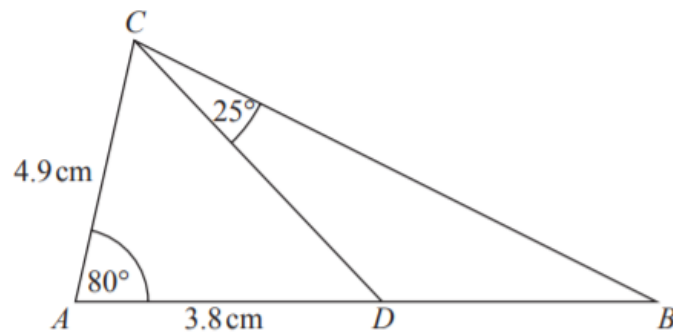


The area of triangle ABC is $6\sqrt{2}$ m².

Calculate the value of x .

Give your answer correct to 3 significant figures.

5.



ABC is a triangle.
 D is a point on AB .

Work out the area of triangle BCD .
Give your answer correct to 3 significant figures.

6.

In triangle RPQ ,

$$RP = 8.7 \text{ cm}$$

$$PQ = 5.2 \text{ cm}$$

$$\text{Angle } PRQ = 32^\circ$$

- (a) Assuming that angle PQR is an acute angle, calculate the area of triangle RPQ .
Give your answer correct to 3 significant figures.

..... cm^2
(4)

- (b) If you did not know that angle PQR is an acute angle, what effect would this have on your calculation of the area of triangle RPQ ?

.....
.....