AREA OF TRIANGLE

[ESTIMATED TIME: 40 minutes]

GCSE

(+ IGCSE) EXAM QUESTION PRACTICE

1. **[3 marks]**

ABCD is a kite.

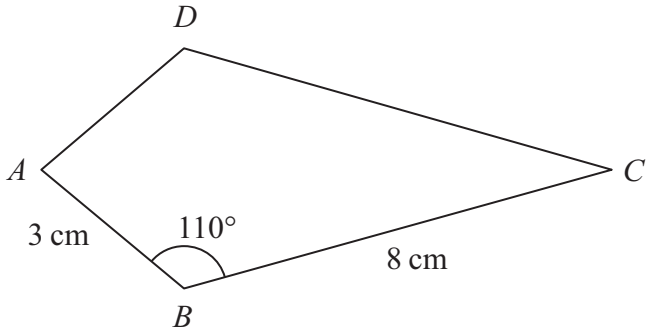


Diagram **NOT** accurately drawn

AB = 3 cm
BC = 8 cm
Angle *ABC* = 110°

Calculate the area of the kite *ABCD*.
Give your answer correct to 3 significant figures.

..... cm^2

2. **[3 marks]**

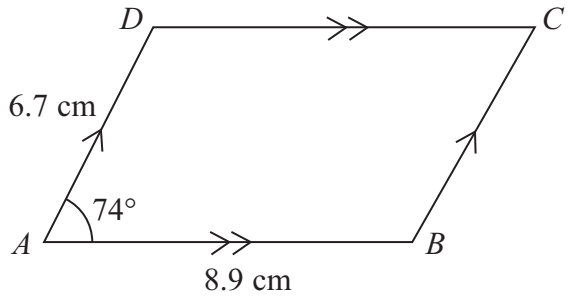


Diagram **NOT** accurately drawn

ABCD is a parallelogram.
AB = 8.9 cm.
AD = 6.7 cm.
Angle *BAD* = 74°

Calculate the area of parallelogram *ABCD*.
Give your answer correct to 3 significant figures.

..... cm^2

3. **[4 marks]**

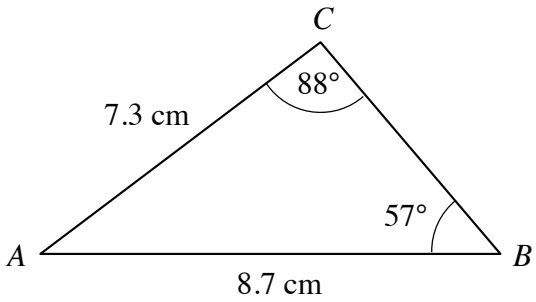


Diagram **NOT** accurately drawn

Calculate the area of triangle *ABC*.
Give your answer correct to 3 significant figures.

..... cm^2

(4)

4. **[6 marks]**

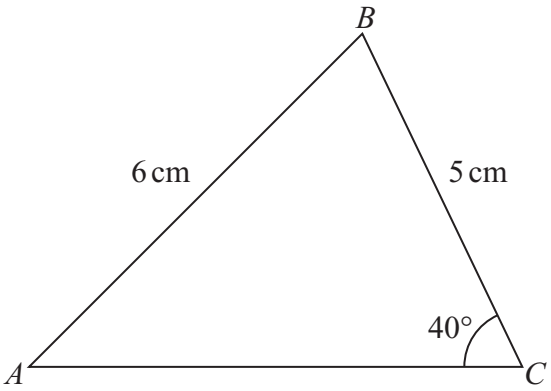


Diagram **NOT** accurately drawn

Calculate the area of triangle *ABC*.
Give your answer correct to 3 significant figures.

..... cm^2

5. **[4 marks]**

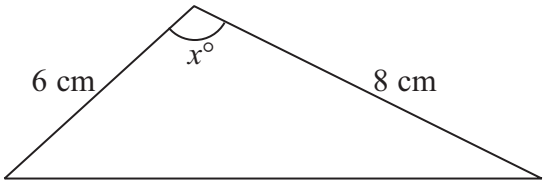


Diagram **NOT** accurately drawn

The area of the triangle is 12 cm^2.
The angle $x°$ is obtuse.
Calculate the value of x.

x = ...

6. **[4 marks]**

ABC is a triangle.

AB = 12 cm
AC = 14 cm
The area of triangle *ABC* is 72 cm^2

Find, in degrees, the two possible sizes of angle *BAC*.
Give your answers correct to the nearest degree.

.....

7. **[6 marks]**

Here is triangle *LMN*, where angle *LMN* is an obtuse angle.

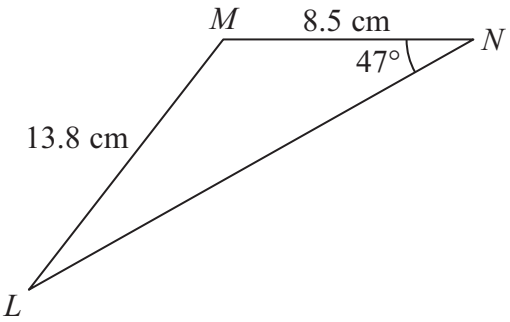


Diagram **NOT** accurately drawn

ML = 13.8 cm
MN = 8.5 cm
Angle *MNL* = 47°

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

..... cm^2

8. **[4 marks]**

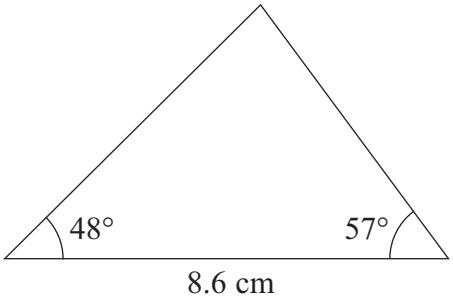


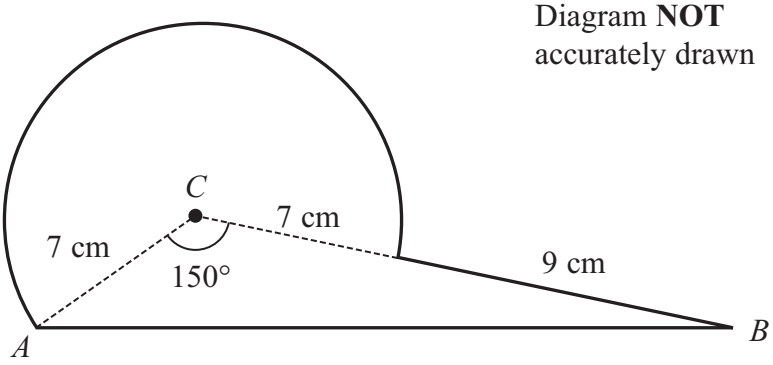
Diagram **NOT** accurately drawn

Calculate the area of the triangle.
Give your answer correct to 3 significant figures.

..... cm^2

9. **[6 marks]**

Here is a shape.



The shape is made from triangle ABC and a sector of a circle, centre C and radius CA.
$CA = 7$ cm.
$CB = 16$ cm.
Angle $ACB = 150°$

Calculate the area of the shape.
Give your answer correct to 3 significant figures.

..... cm^2