Area of Triangles
Give answers to 3 significant figures.

Section A
Questions 1 - 5 find the area of the triangles, for question 6 find the missing side x.

1) [Diagram of triangle with sides 7 cm, 6 cm, and 100°]
   Area =

2) [Diagram of triangle with sides 3.2 cm, 4.5 cm, and 84°]
   Area =

3) [Diagram of triangle with sides 8.1 cm, 12.3 cm, and 62°]
   Area =

4) [Diagram of triangle with sides 13 cm, 9 cm, and 27°]
   Area =

5) [Diagram of triangle with sides 2.7 cm, 14 cm, and 112°]
   Area =

6) [Diagram of triangle with sides 4 cm, 10 cm, and unknown x]
   Area =
   x =

Section B
Work out the area of the parallelogram and irregular quadrilaterals.

1) [Diagram of parallelogram with sides 15 cm and 19.5 cm, angle 71°]
   Area =

2) [Diagram of triangle with sides 6 cm, 2 cm, and 128°]
   Area =

3) [Diagram of quadrilateral with sides 1.9 cm, 3.6 cm, 51°, and 2.2 cm]
   Area =

Section C
1) A regular hexagon has sides lengths 10 cm.
   Calculate the area of the hexagon.

2) The area of triangle ABC is 19.6 cm².
   AB = 5.9 cm, AC = 8.7 cm.
   Calculate the two possible sizes of angle A.

Extension
The points X, Y and Z are are on the circumference of a circle, with centre O and radius 5 cm.
XY = 7 cm and YZ = 4.5 cm.
Calculate the area of quadrilateral OXYZ.