Area of Triangles

Give answers to 3 significant figures.

NOT TO SCALE

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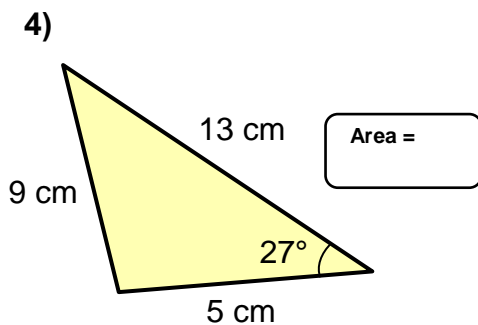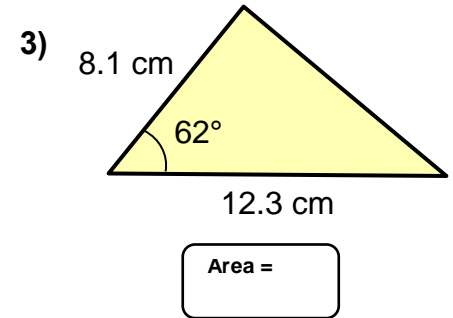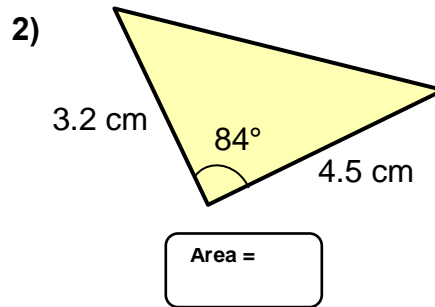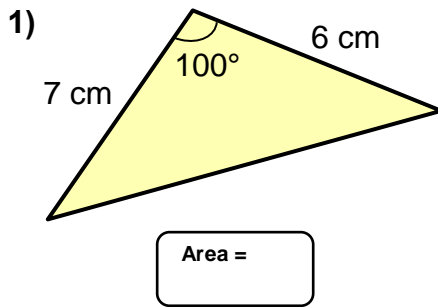
Questions 1 - 5 find the area of the triangles, for question 6 find the missing side x.

1)

6 cm

100°

7 cm

Area =

2)

3.2 cm

84°

4.5 cm

Area =

3)

8.1 cm

62°

12.3 cm

Area =

4)

13 cm

9 cm

27°

5 cm

Area =

5)

1.4 cm

39°

112°

2.7 cm

Area =

6)

x

Area = 31.7 cm^2

44°

10 cm

x =
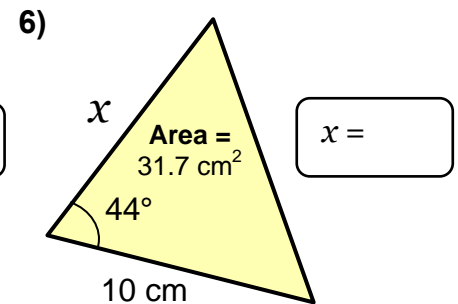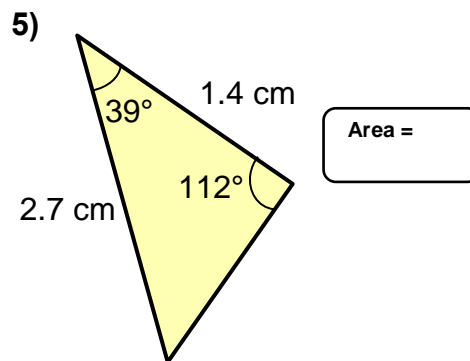
Section B

Work out the area of the parallelogram and irregular quadrilaterals.

1)

19.5 cm

15 cm

71°

Area =

2)

6 cm

O

47°

128°

2 cm

Area =

3)

2.2 cm

51°

1.9 cm

3.6 cm
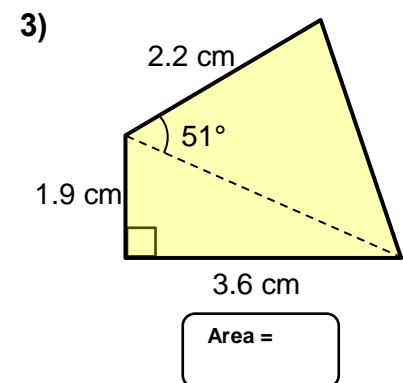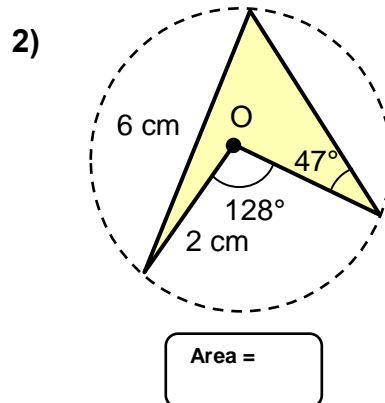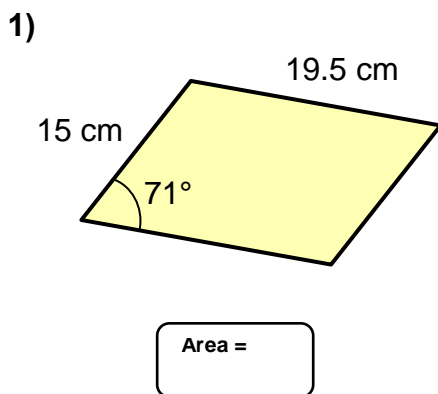
Area =

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 cm^2.*
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.