1 Work out the length of side x.

14 cm

92°

8 cm

x

Not drawn accurately

[3 marks]

$x =$ _____ cm

2 Work out the length of side x.

54°

6 cm

6.2 cm

x

Not drawn accurately

[3 marks]

$x =$ _____ cm

$\frac{}{6}$
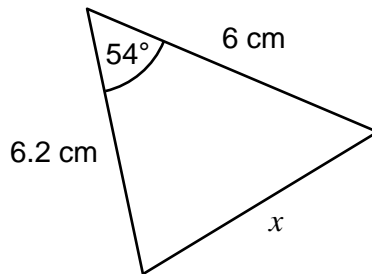
3   Work out the size of angle x.

20 cm   13 cm

Not drawn accurately

x

19 cm
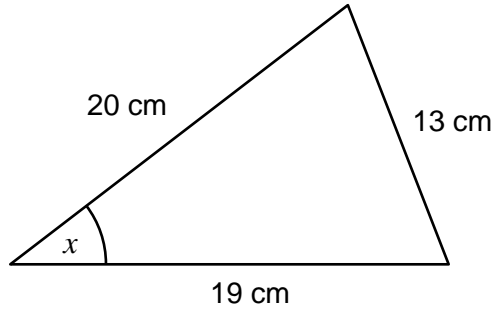
[3 marks]

$x =$ _____ °

4   Work out the size of angle x.

25 cm x

Not drawn accurately

17 cm

20 cm

[3 marks]

$x =$ _____ °

3
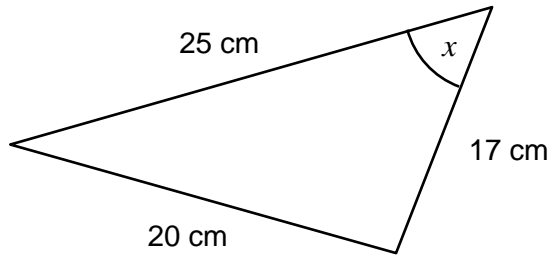
5 Work out the length of side x.

4.8 cm

x

37°

Not drawn accurately

13.3 cm
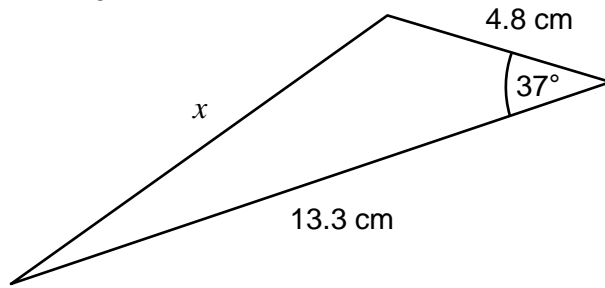
[3 marks]

$x =$ _____ cm

6 Work out the size of angle x.

10 cm

13 cm

Not drawn accurately

x

14 cm
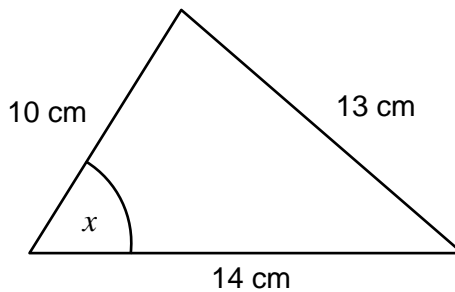
[3 marks]

$x =$ _____ °

$\overline{12}$

Turn over ▶

7   Work out the size of angle x.

3 cm

10 cm

x

9 cm
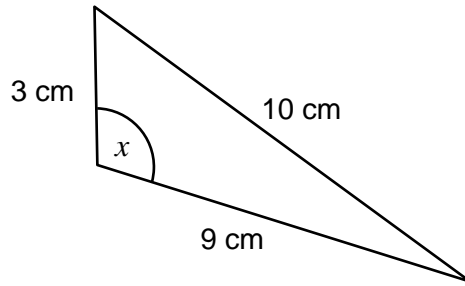
Not drawn accurately

[3 marks]
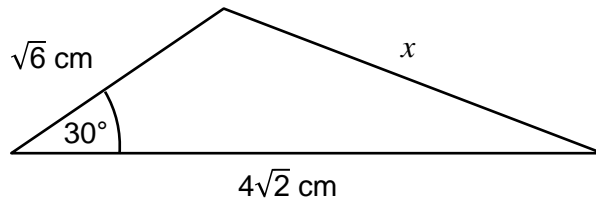
$x =$ _____ °

8   Work out the length of side x.
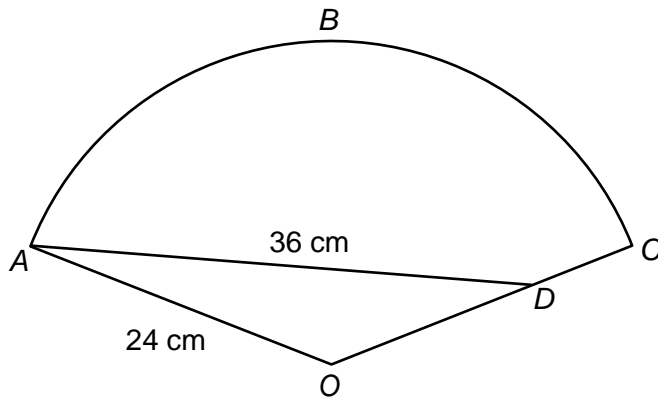Give your answer in the form $\sqrt{k}$, where k is an integer.

$\sqrt{6}$ cm

x

30°

$4\sqrt{2}$ cm

Not drawn accurately

[4 marks]

$x =$ _____ cm

9   *ABCO* is a sector with centre *O*.

D is the point on *OC* so that *OD* : *DC* = 5 : 3
AO = 24 cm
AD = 36 cm

Work out the area of the sector.   **[5 marks]**
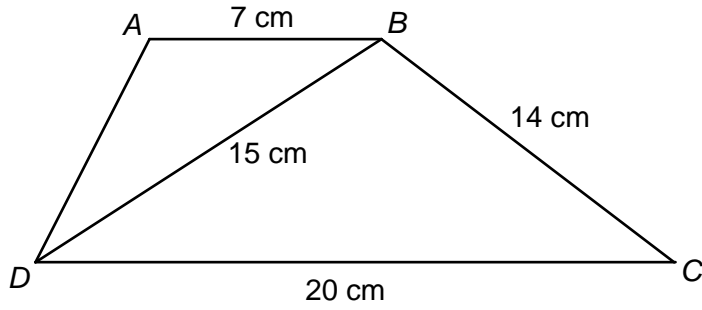
Answer _____ cm²

10 *ABCD* is a trapezium with *AB* parallel to *CD*.

Work out the length of line *AD*.

[5 marks]

Answer _____ cm

11 Boat *A* and Boat *B* both leave the Port P at 12pm.

Boat *A* travels on a bearing of 112° and travels at a constant speed of 16 mph.
Boat *B* travels on a bearing of 220° and travels at a constant speed of 14 mph.

At 2:30 pm, what is the direct distance between the two boats. **[5 marks]**

Answer _____ miles

$\frac{}{10}$