Pythagoras Worksheet
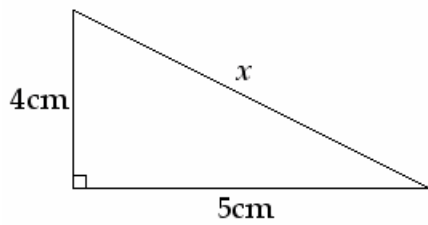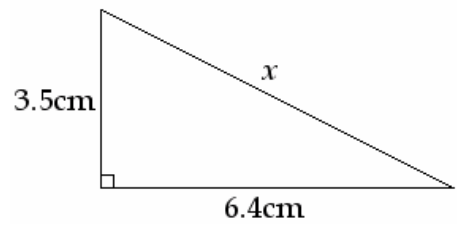
Find the lengths of the unknown sides in the following right-angled triangles
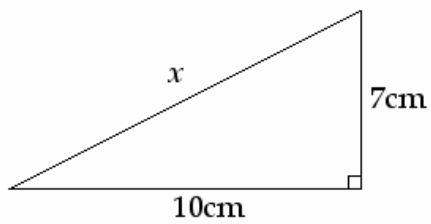
1.

4cm

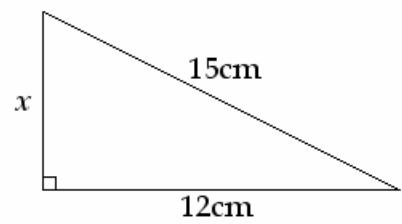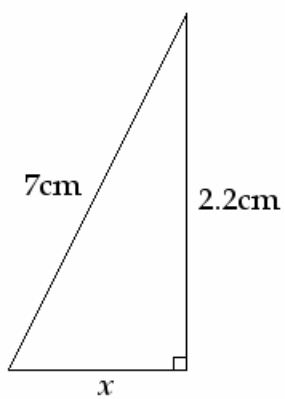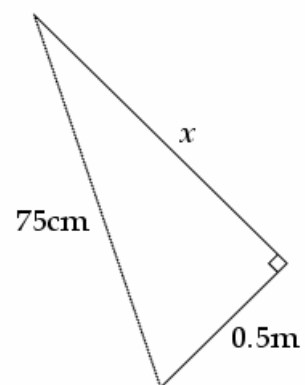*x*

5cm

2.

3.5cm

x

6.4cm

3.

x

7cm

10cm

4.
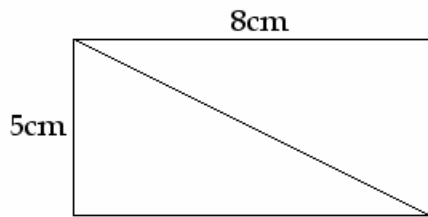
15cm

x

12cm

5.

7cm

2.2cm

x

6.

x

75cm

0.5m

7. Find the length of the diagonal of the rectangle
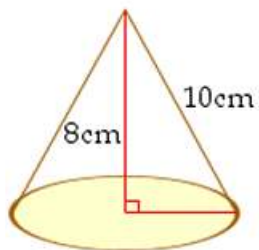
8. Find the unknown sides

8cm

5cm

16cm x 19cm

5cm y
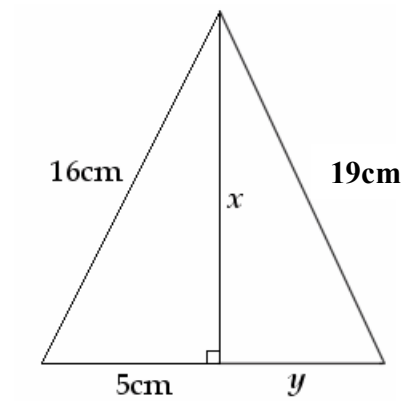
9. A 5 metre ladder is positioned 3.2 metres from a building, as shown in the diagram. Will the ladder reach a window which is 4 metres from the ground?
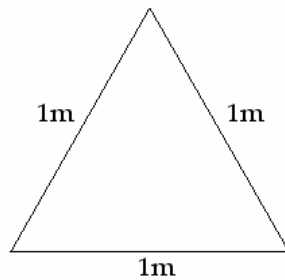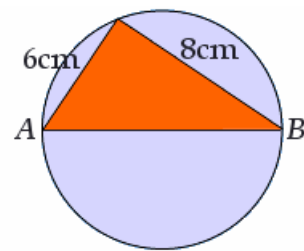
5 m

x m

3.2 m

10.

10cm

8cm
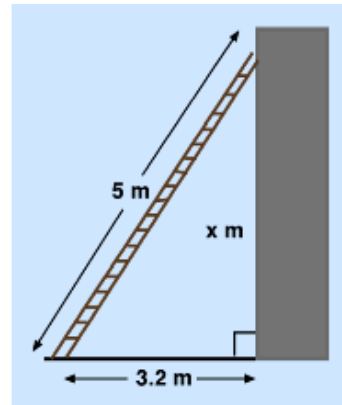
A cone is shown. Find the diameter of the cone.
Hint: the diameter is twice the length of the radius

11. Find the perpendicular height of the equilateral triangle shown

12. AB is the diameter of the circle shown.
Find the radius of the circle

13. **HARDER PROBLEM**

The diagram shows a cube of side 5cm. Find the length of AB.

Hint:- All sides of the cube are 5cm. You will need to use Pythagoras twice: find one side and then use it to find AB