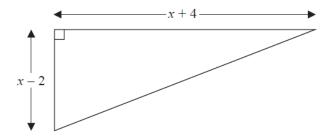
1 The diagram shows a right-angled triangle.



All the measurements are in centimetres.

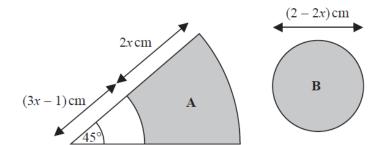
The area of the triangle is 27.5 cm²

Work out the length of the shortest side of the triangle. You must show all your working.

(Total for Question is 4 marks)

2 The diagram shows two shaded shapes, A and B.

Shape **A** is formed by removing a sector of a circle with radius (3x - 1) cm from a sector of the circle with radius (5x - 1) cm. Shape **B** is a circle of diameter (2 - 2x) cm.



The area of shape A is equal to the area of shape B.

Find the value of *x*. You must show all your working.

.....

(Total for Question is 5 marks)

3	Solve	$x^2 = 5x + 24$

(Total for Question	is 3 marks)