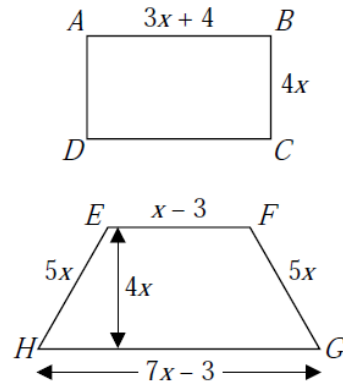


- 1 $ABCD$ is a rectangle.
 $EFGH$ is a trapezium.

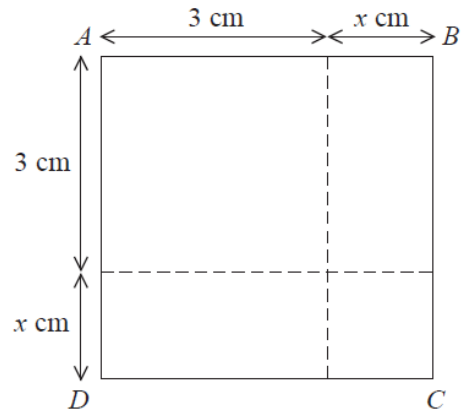


All measurements are in centimetres.
 The perimeters of these two shapes are the same.
 Work out the area of the rectangle.

..... cm^2

(Total for Question is 5 marks)

2

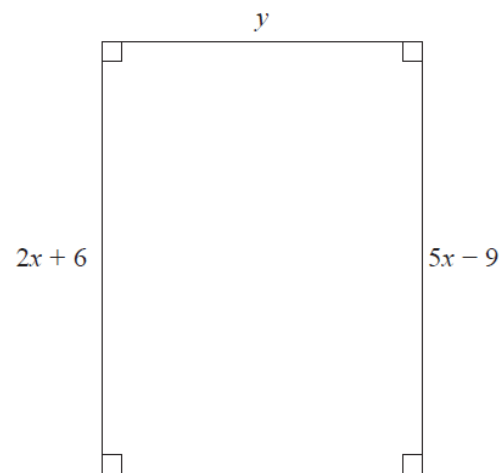


The area of square $ABCD$ is 10 cm^2 .

Show that $x^2 + 6x = 1$

(Total for Question is 3 marks)

3 Here is a rectangle.



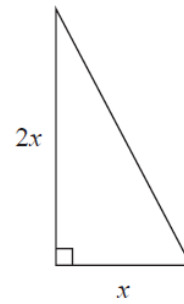
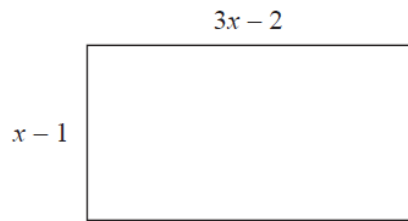
All measurements are in centimetres.

The area of the rectangle is 48 cm^2 .

Show that $y = 3$

(Total for Question is 4 marks)

4 Here is a rectangle and a right-angled triangle.



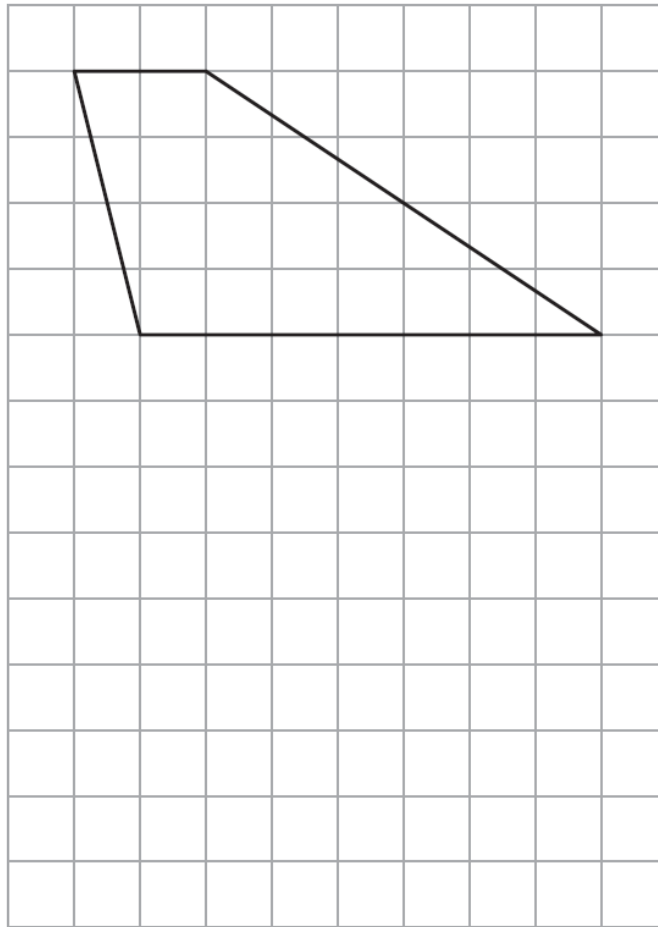
All measurements are in centimetres.

The area of the rectangle is greater than the area of the triangle.

Find the set of possible values of x .

.....
(Total for Question is 5 marks)

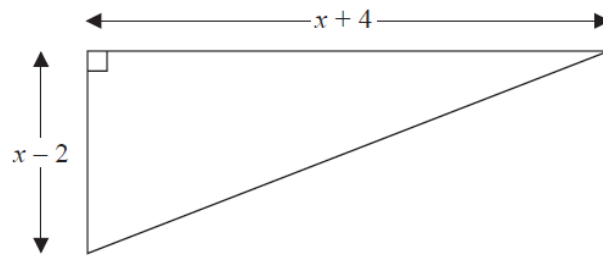
- 5 Here is a trapezium drawn on a centimetre grid.



On the grid, draw a triangle equal in area to this trapezium.

(Total for Question is 2 marks)

- 6 The diagram shows a right-angled triangle.



All the measurements are in centimetres.

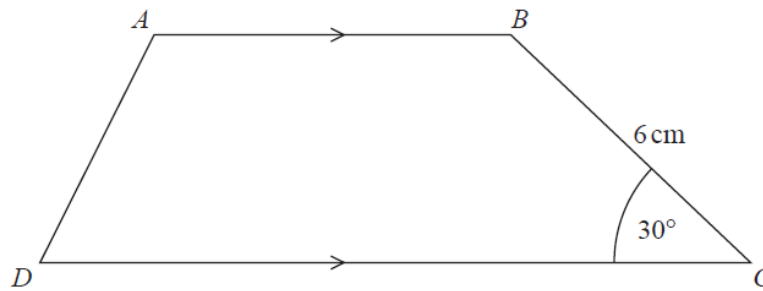
The area of the triangle is 27.5 cm^2

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

..... cm

(Total for Question is 4 marks)

7 Here is trapezium $ABCD$.



The area of the trapezium is 66 cm^2

the length of AB : the length of $CD = 2 : 3$

Find the length of AB .

..... cm

(Total for Question is 5 marks)