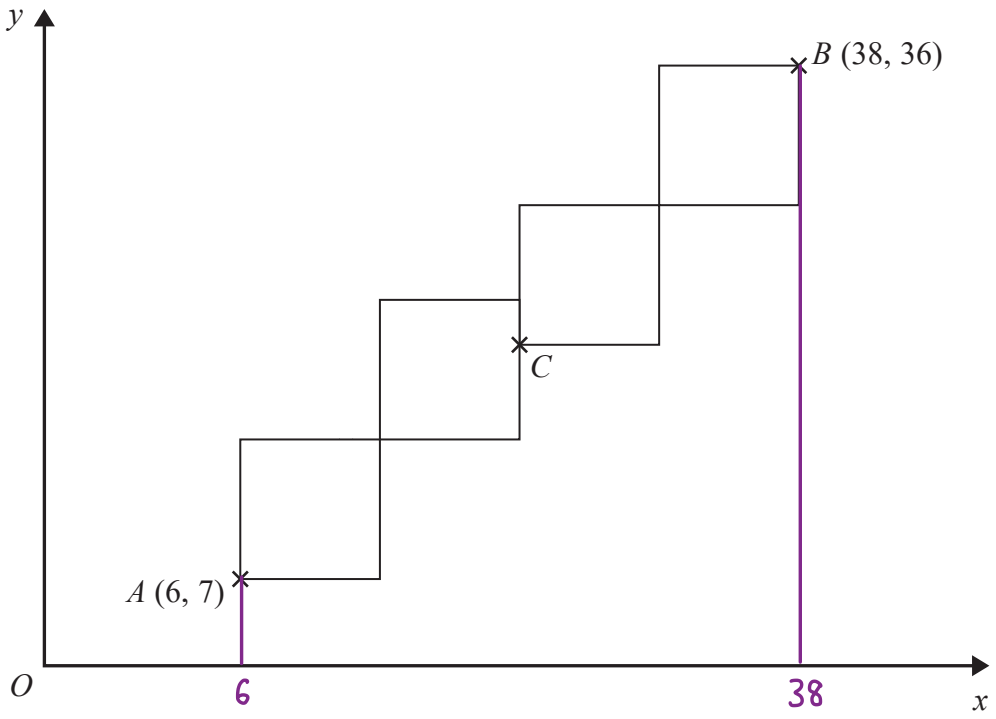
1. A pattern is made from four identical squares.

The sides of the squares are parallel to the axes.



Point A has coordinates (6, 7)
Point B has coordinates (38, 36)
Point C is marked on the diagram.

Work out the coordinates of C.

1) Side length of one square:

Width of 4 squares (x-axis) ÷ 4

$(38 - 6) \div 4 = \frac{32}{4} = 8$ (1)

(1)

x co-ordinate of C

2) C is 2 side lengths to the right of A (along the x axis)

$6 + 8 + 8 = 22$ (1)

↑ x co-ordinate of A

So the x coordinate of C is 22

3) y co-ordinate of C

C is 2 side lengths below B (down the y axis)

$36 - 8 - 8 = 20$ (1)

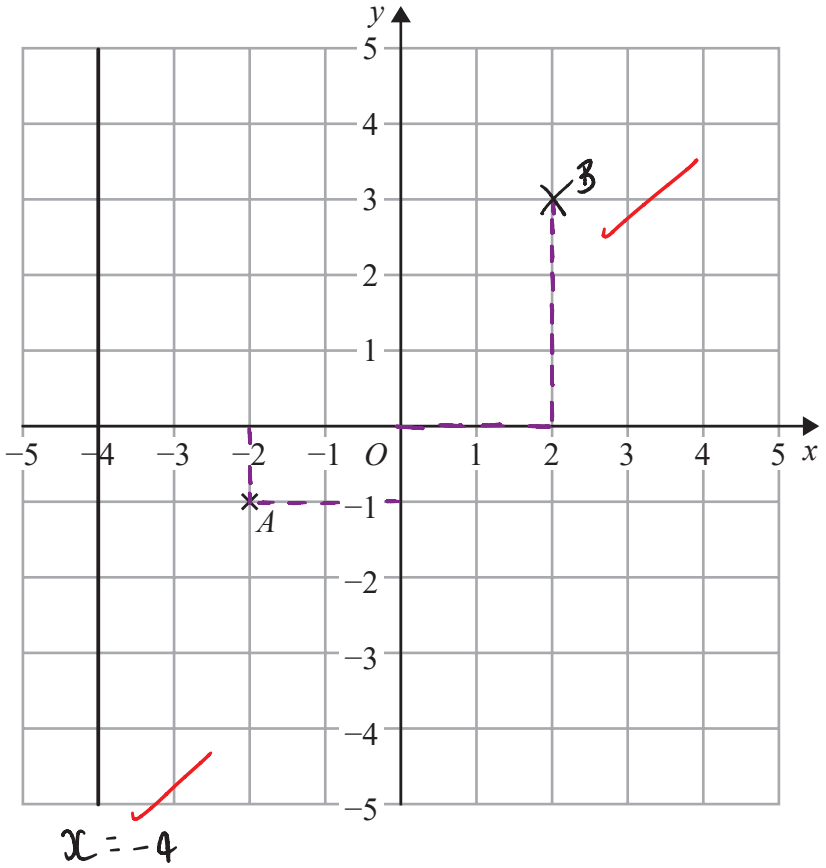
↑ y co-ordinate of B

(1)

(22 , 20)

(Total for Question is 5 marks)

2.



(a) Write down the coordinates of point A.

x y

(−2 , −1)

(1)

(b) On the grid, mark with a cross (×) the point (2, 3)
Label this point B.

x y

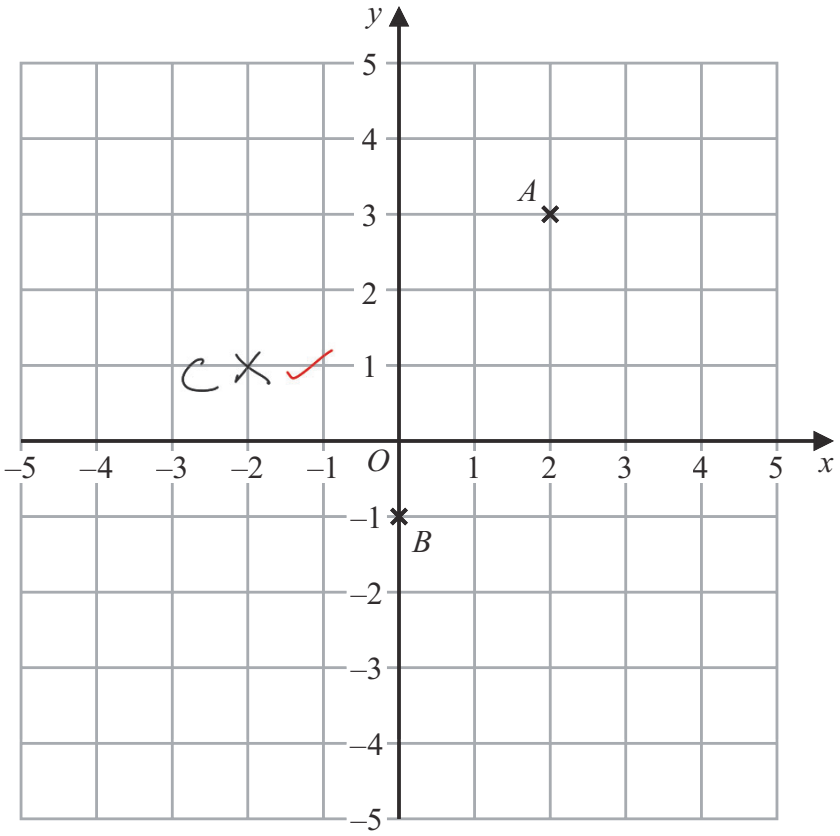
(1)

(c) On the grid, draw the line with equation $x = -4$

(1)

(Total for Question is 3 marks)

3.



(a) Write down the coordinates of the point *A*.

(2 , 3)

(1)

(b) Write down the coordinates of the point *B*.

(0 , −1)

(1)

(c) On the grid, mark with a cross (×) the point (–2, 1)
Label this point *C*.

(1)

(Total for Question is 3 marks)