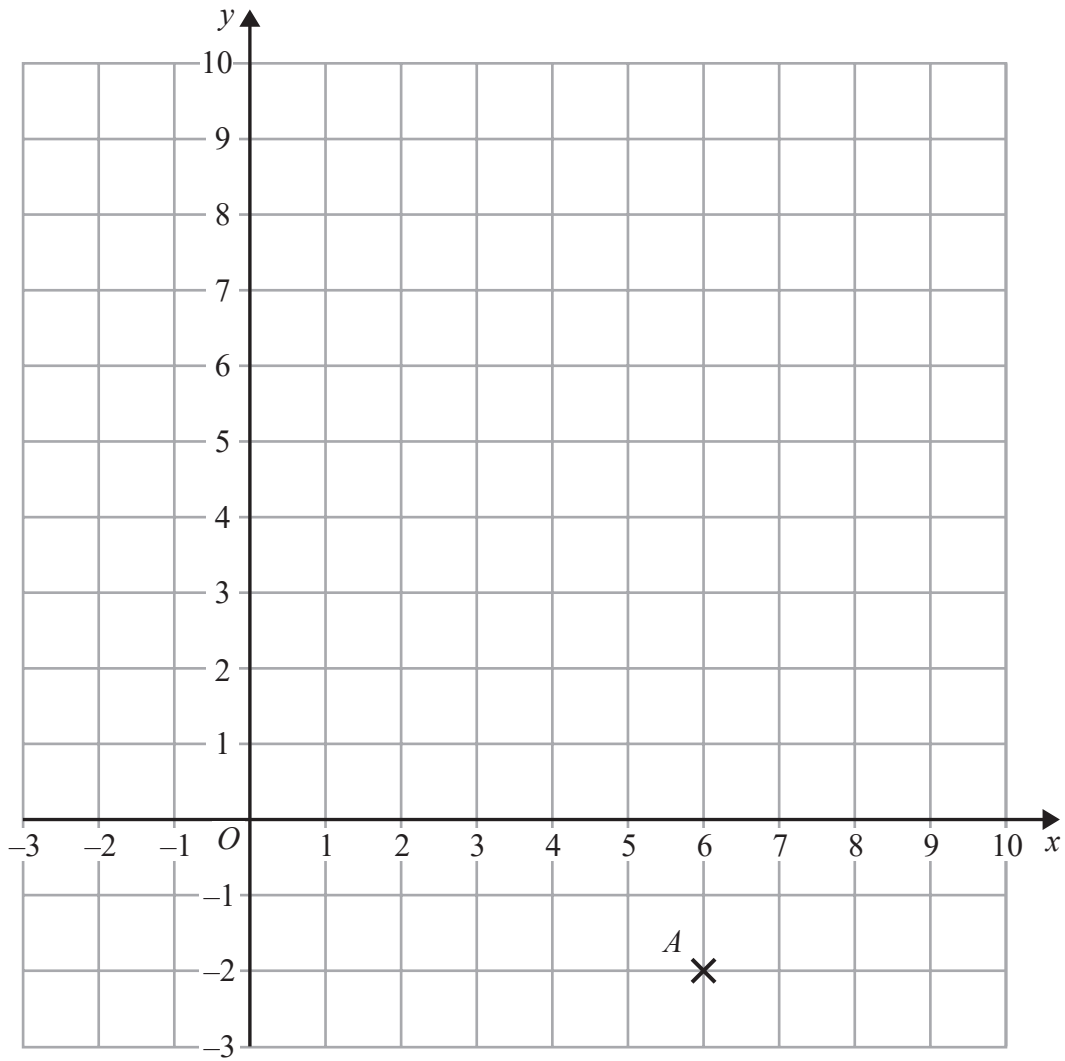


1



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

(....., .....) )

(1)

- (b) (i) Plot the point with coordinates  $(2, 9)$ .  
Label this point  $B$ .

(1)

- (ii) Does point  $B$  lie on the straight line with equation  $y = 4x + 1$ ?  
You must show how you get your answer.

.....  
.....  
(1)

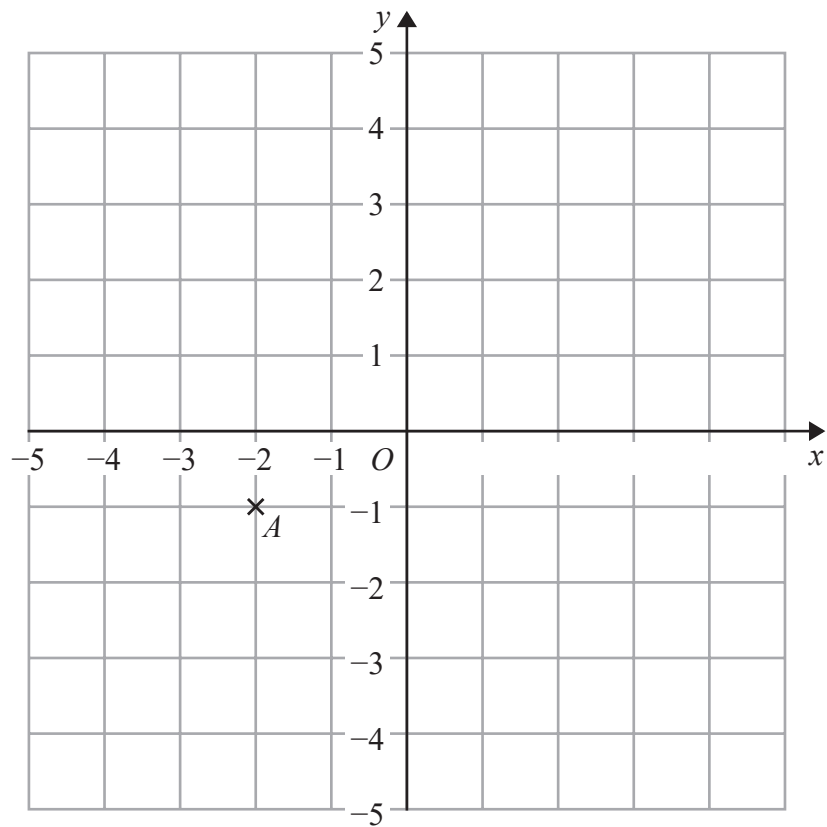
- (c) On the grid, draw the line with equation  $x = -2$

(1)

---

**(Total for Question 1 is 4 marks)**

2



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

(....., .....)  
(1)

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

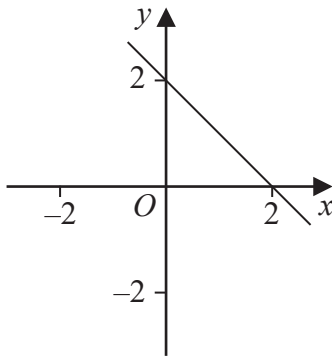
(1)

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

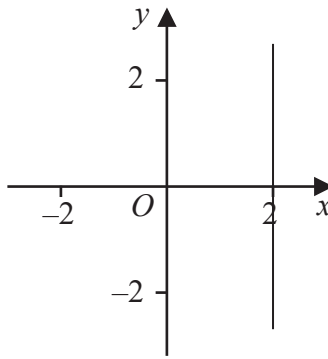
(1)

**(Total for Question 2 is 3 marks)**

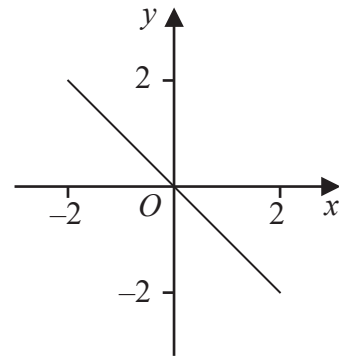
3 Here are six straight line graphs.



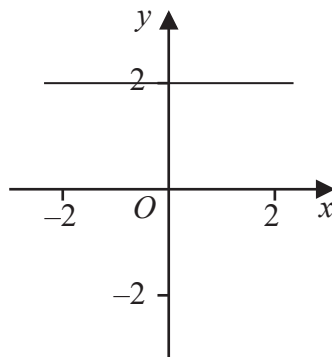
Graph A



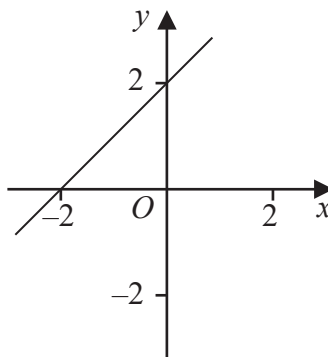
Graph B



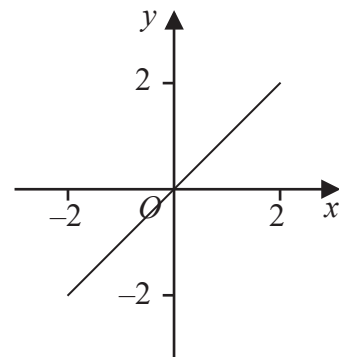
Graph C



Graph D



Graph E



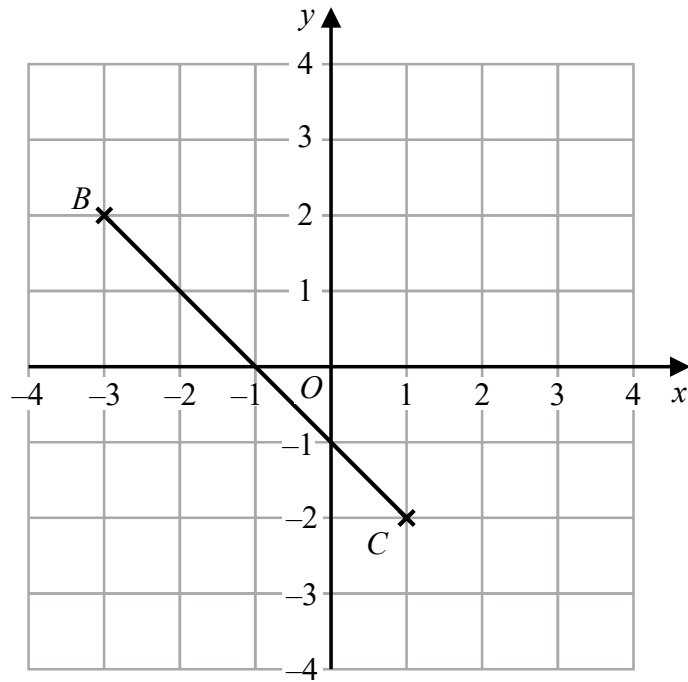
Graph F

Match each equation in the table to the correct graph.  
Write the letter of the graph in the table.

Equation	Graph
$y = 2$	
$y = x$	
$x + y = 2$	

(Total for Question 3 is 2 marks)

4



- (a) Plot the point with coordinates (3, 2)  
Label this point *A*.

(1)

- (b) Write down the coordinates of the midpoint of *BC*.

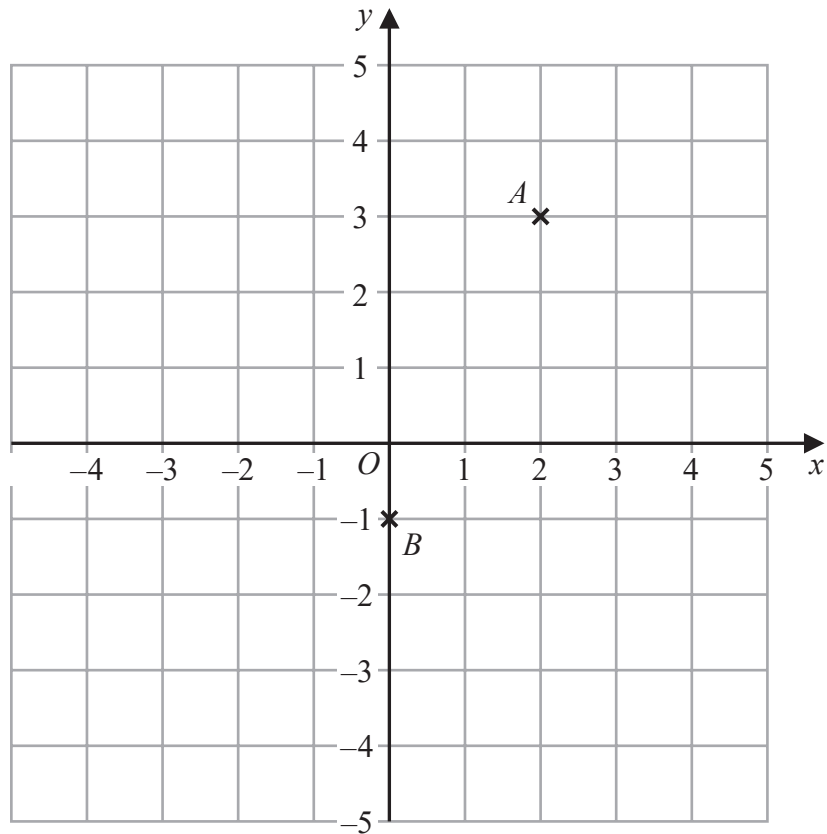
(....., .....)

(1)

---

(Total for Question 4 is 2 marks)

5



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

(....., .....)  
(1)

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

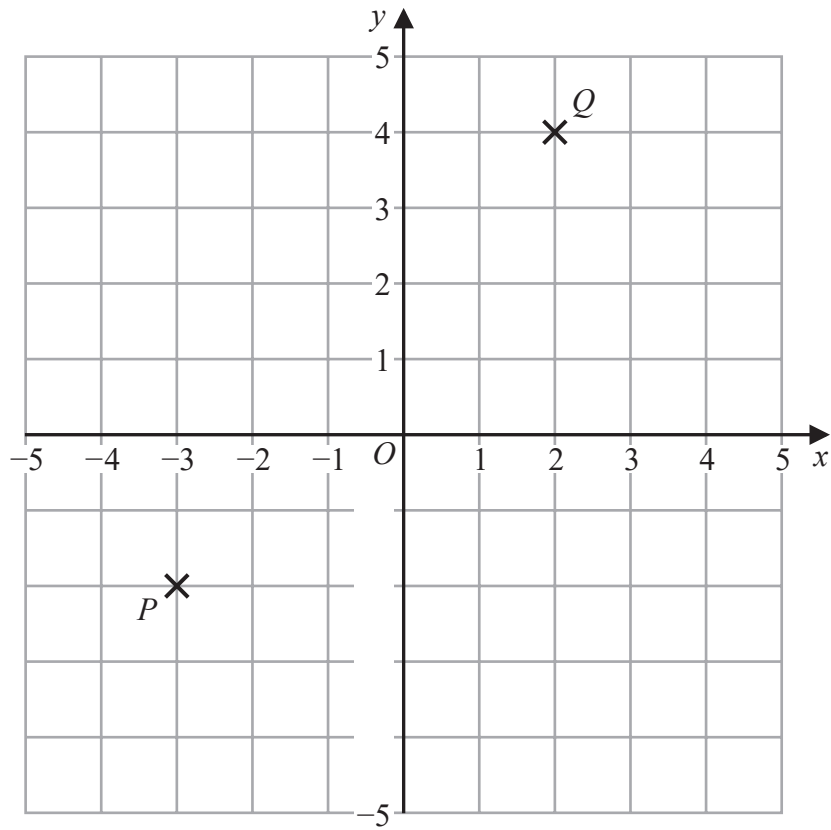
(....., .....)  
(1)

(c) On the grid, mark with a cross ( $\times$ ) the point  $(-2, 1)$   
Label this point  $C$ .

(1)

(Total for Question 5 is 3 marks)

6

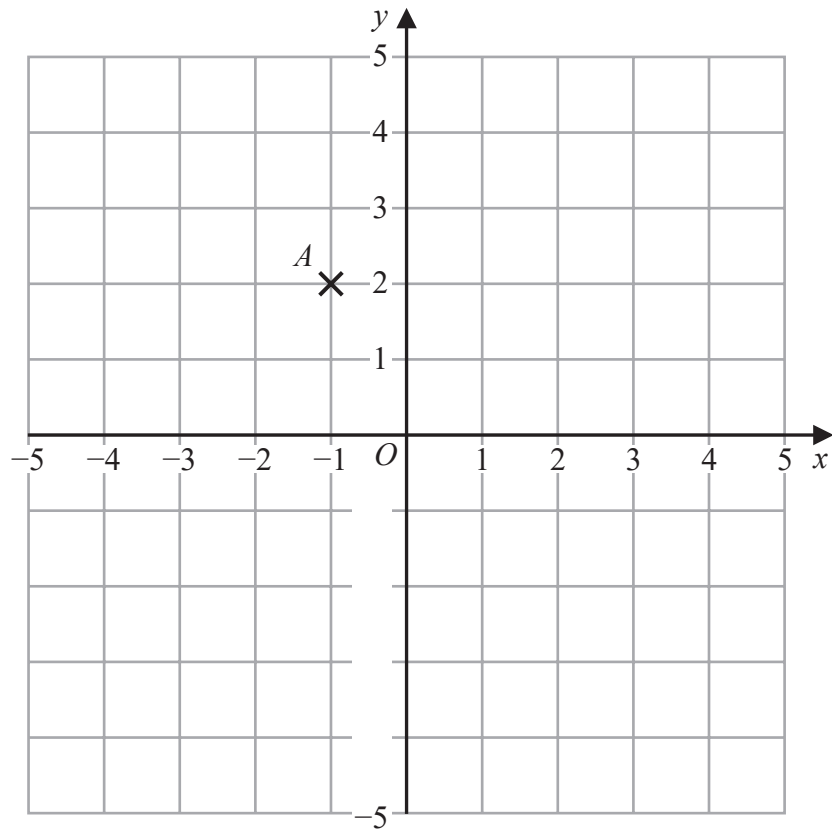


Find the coordinates of the midpoint of  $PQ$ .

( ..... , ..... )

**(Total for Question 6 is 2 marks)**

7



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

( ..... , ..... )  
(1)

(b) On the grid, mark with a cross ( $\times$ ) the point  $(1, 4)$   
Label this point  $B$ .

(1)

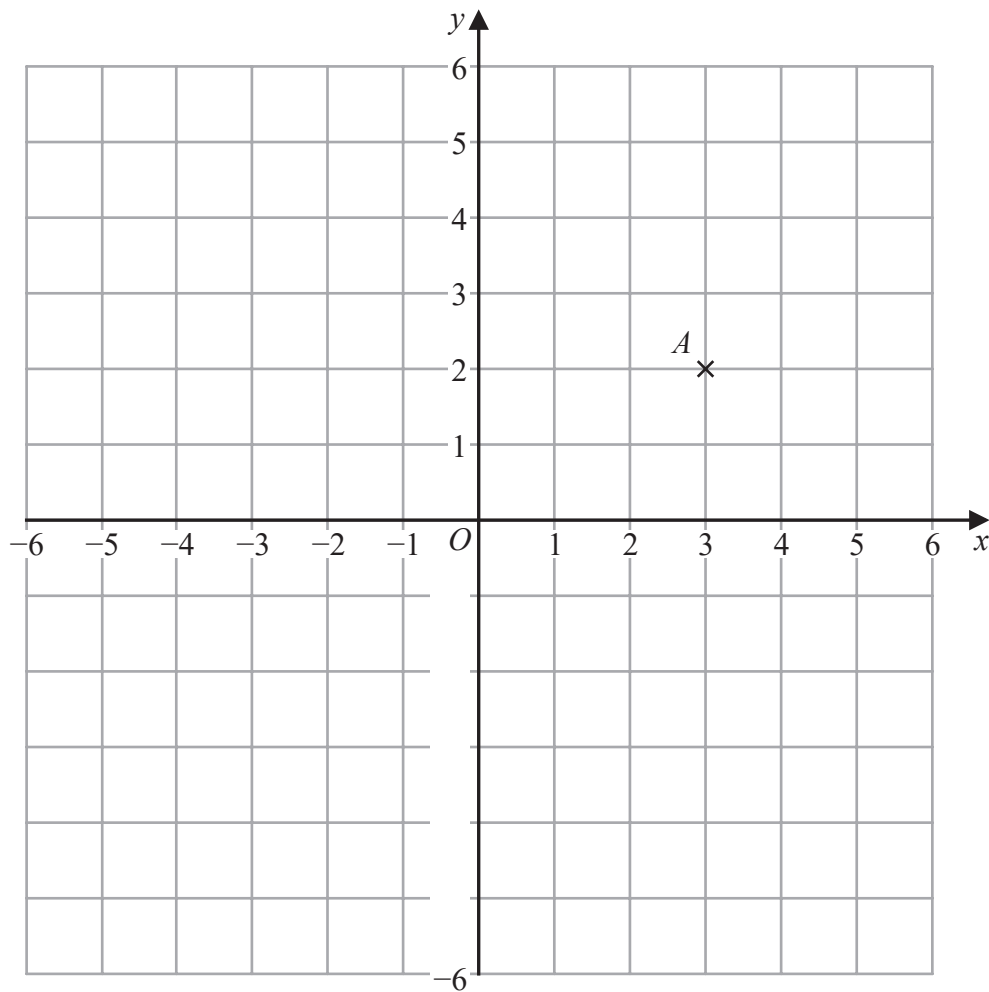
(c) On the grid, draw the line with equation  $y = -3$

(1)

**(Total for Question 7 is 3 marks)**



8 Here is a centimetre grid.



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

(..... , .....)  
(1)

(b) On the grid, mark with a cross ( $\times$ ) the point with coordinates  $(-4, 3)$   
Label this point  $B$ .

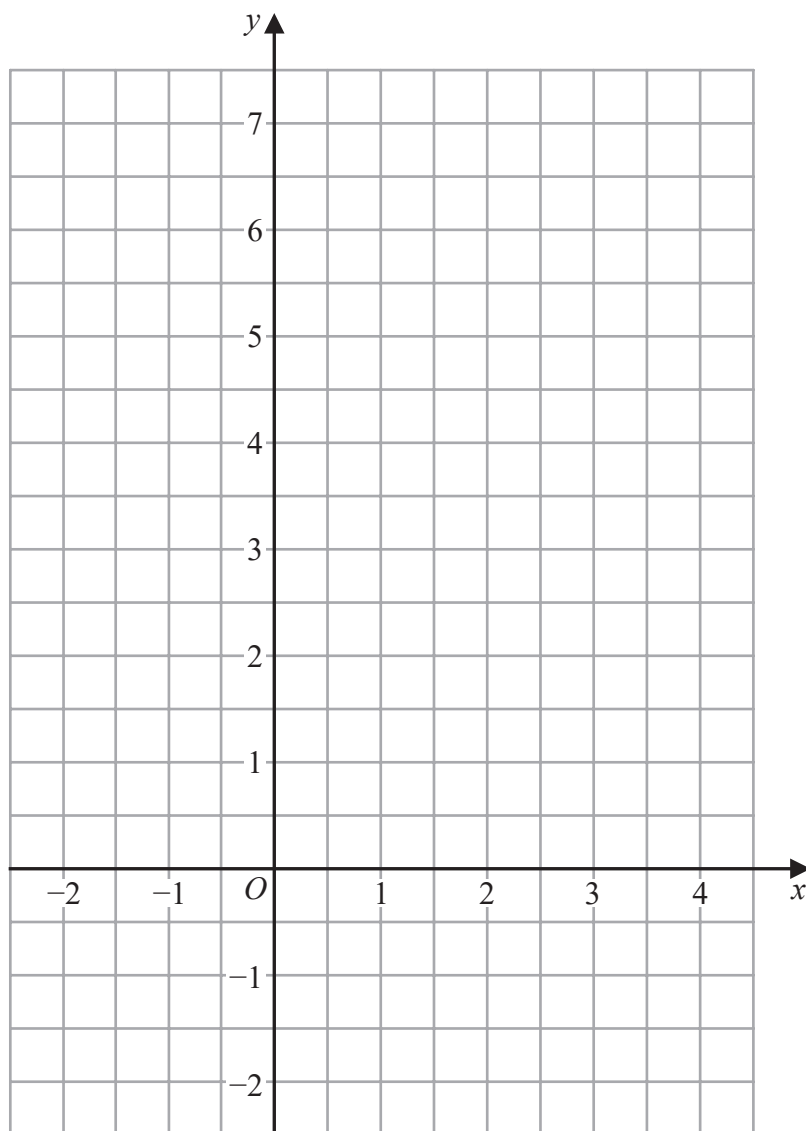
(1)

(c) On the grid, draw the circle with  
centre  $(1, -1)$   
and radius 4 cm.

(2)

**(Total for Question 8 is 4 marks)**

9 On the grid below, draw the graph of  $y = 4 - x$  for values of  $x$  from  $-2$  to  $4$



(Total for Question 9 is 3 marks)

- 10 The equation of the line  $L_1$  is  $y = 3x - 2$   
The equation of the line  $L_2$  is  $3y - 9x + 5 = 0$

Show that these two lines are parallel.

---

(Total for Question 10 is 2 marks)

- 11  $A$  is the point with coordinates  $(5, 9)$   
 $B$  is the point with coordinates  $(d, 15)$

The gradient of the line  $AB$  is 3

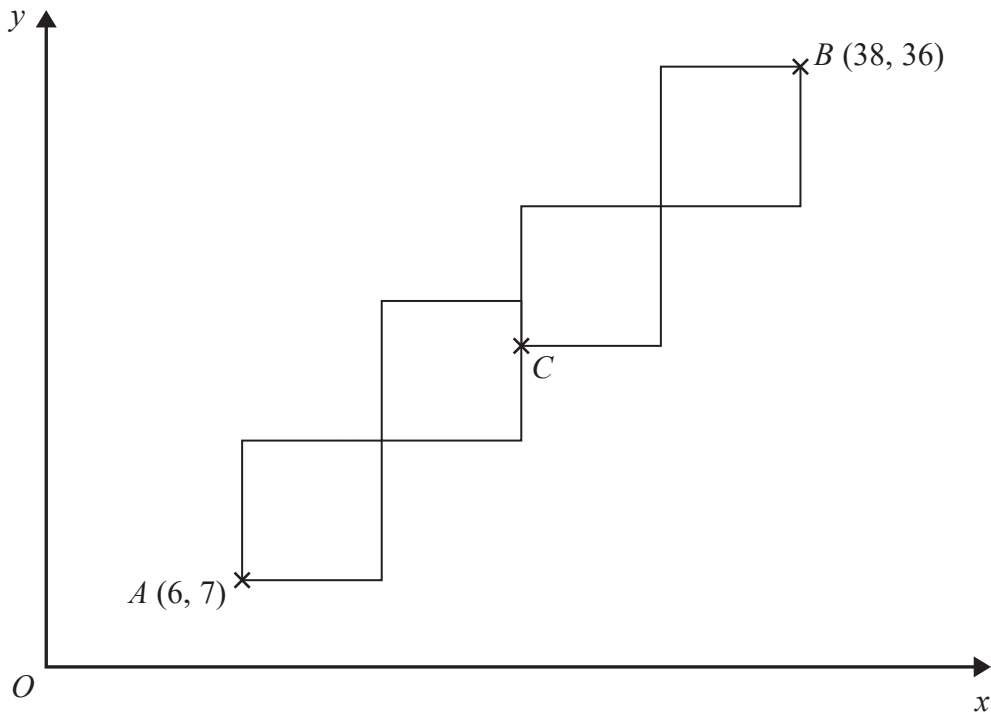
Work out the value of  $d$ .

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(Total for Question 11 is 3 marks)

12 A pattern is made from four identical squares.

The sides of the squares are parallel to the axes.



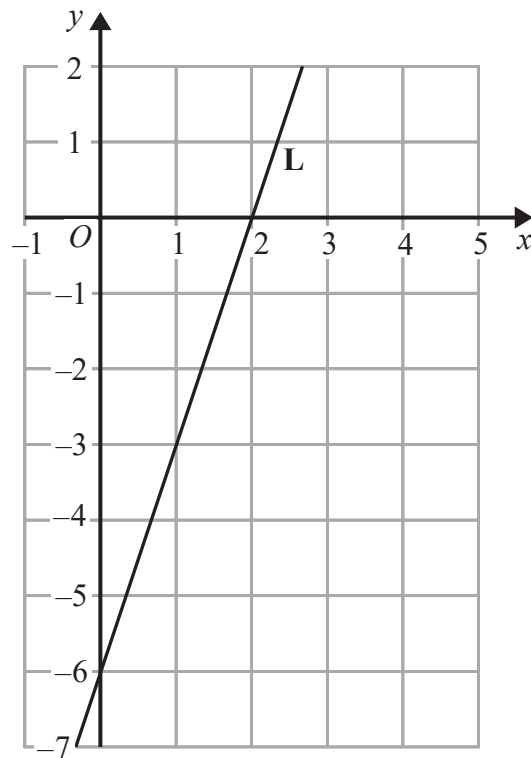
Point  $A$  has coordinates  $(6, 7)$   
 Point  $B$  has coordinates  $(38, 36)$   
 Point  $C$  is marked on the diagram.

Work out the coordinates of  $C$ .

(..... , .....)

**(Total for Question 12 is 5 marks)**

13 The line **L** is shown on the grid.



Find an equation for **L**.

.....  
**(Total for Question 13 is 3 marks)**

14 Write down the gradient of the line with equation  $y = 2x + 3$

.....

**(Total for Question 14 is 1 mark)**

15 The equation of a straight line **L** is  $y = 3 - 4x$

(i) Write down the gradient of **L**.

.....

**(1)**

(ii) Write down the coordinates of the point where **L** crosses the  $y$ -axis.

(..... , .....)

**(1)**

**(Total for Question 15 is 2 marks)**

16 The points  $L$ ,  $M$  and  $N$  are such that  $LMN$  is a straight line.

The coordinates of  $L$  are  $(-3, 1)$

The coordinates of  $M$  are  $(4, 9)$

Given that  $LM : MN = 2 : 3$ ,

find the coordinates of  $N$ .

(..... , .....)

**(Total for Question 16 is 4 marks)**

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