3.2 Equation of Linear Graphs

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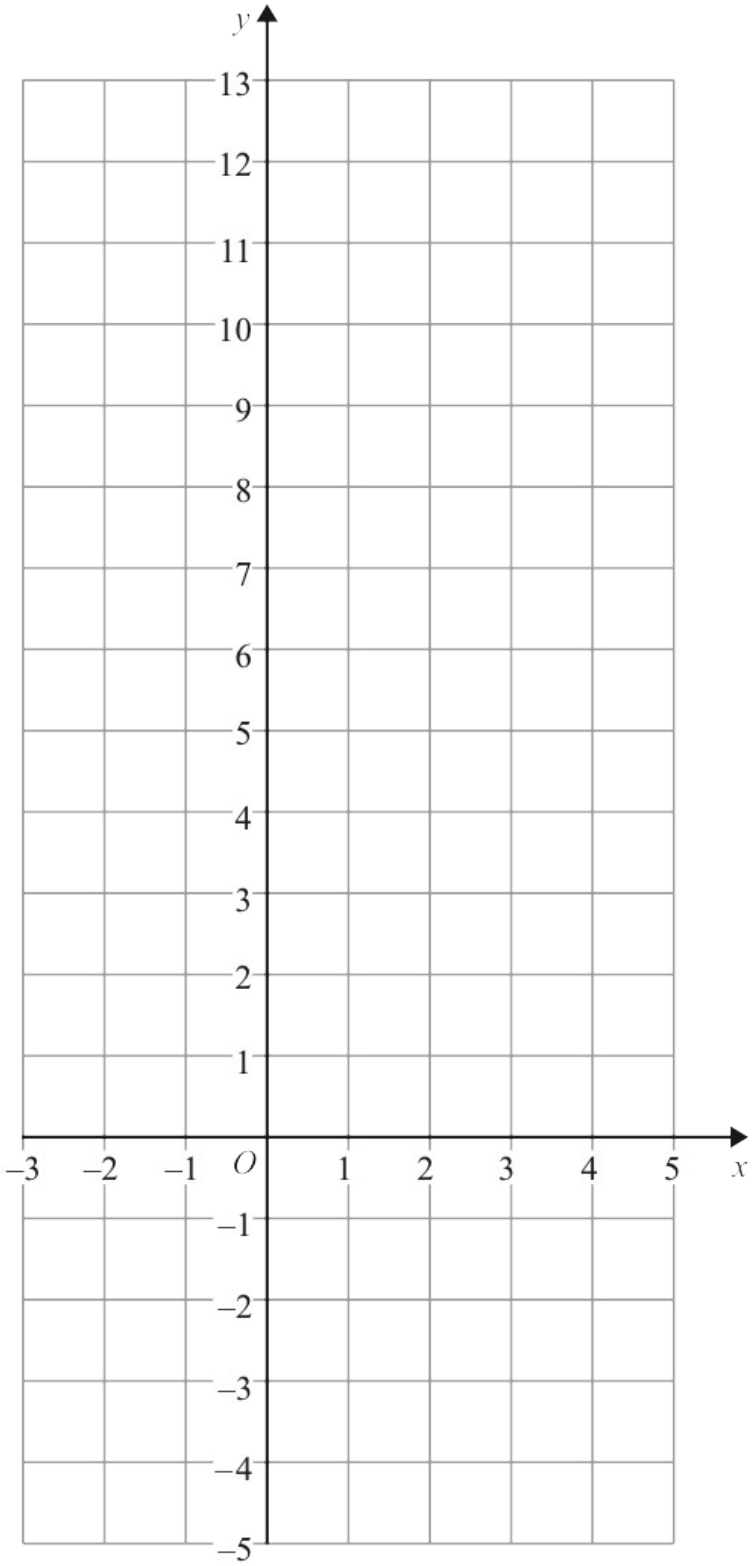
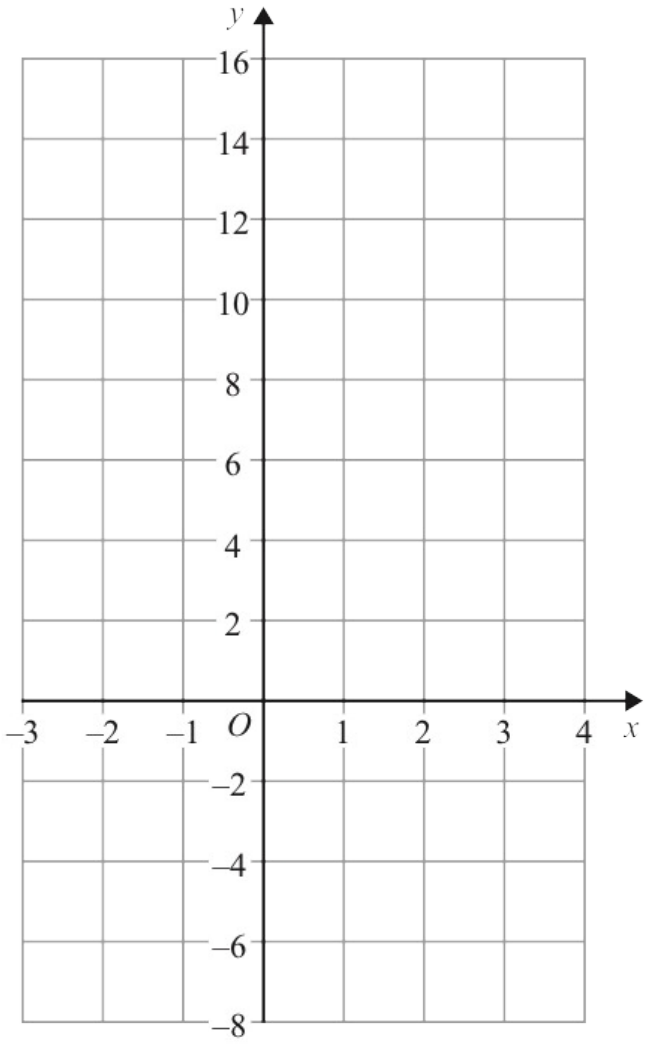
23 On the grid, draw the graph of $y = 5 - 3x$ for values of x from -2 to 3



(Total for Question 23 is 3 marks)

18 (a) On the grid, draw the graph of $y = 4x + 2$ for values of x from -2 to 3



(3)

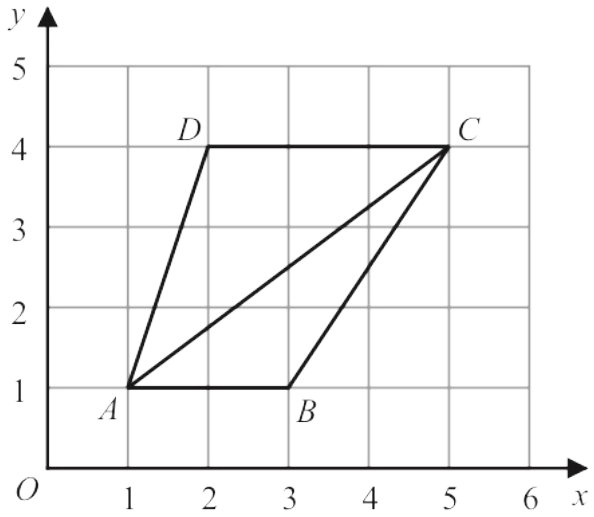
The point with coordinates $(p, 50)$ lies on the line with equation $y = 4x + 2$

(b) Work out the value of p.

$p =$ .....

(2)

12 The diagram shows a quadrilateral $ABCD$ on a centimetre grid.

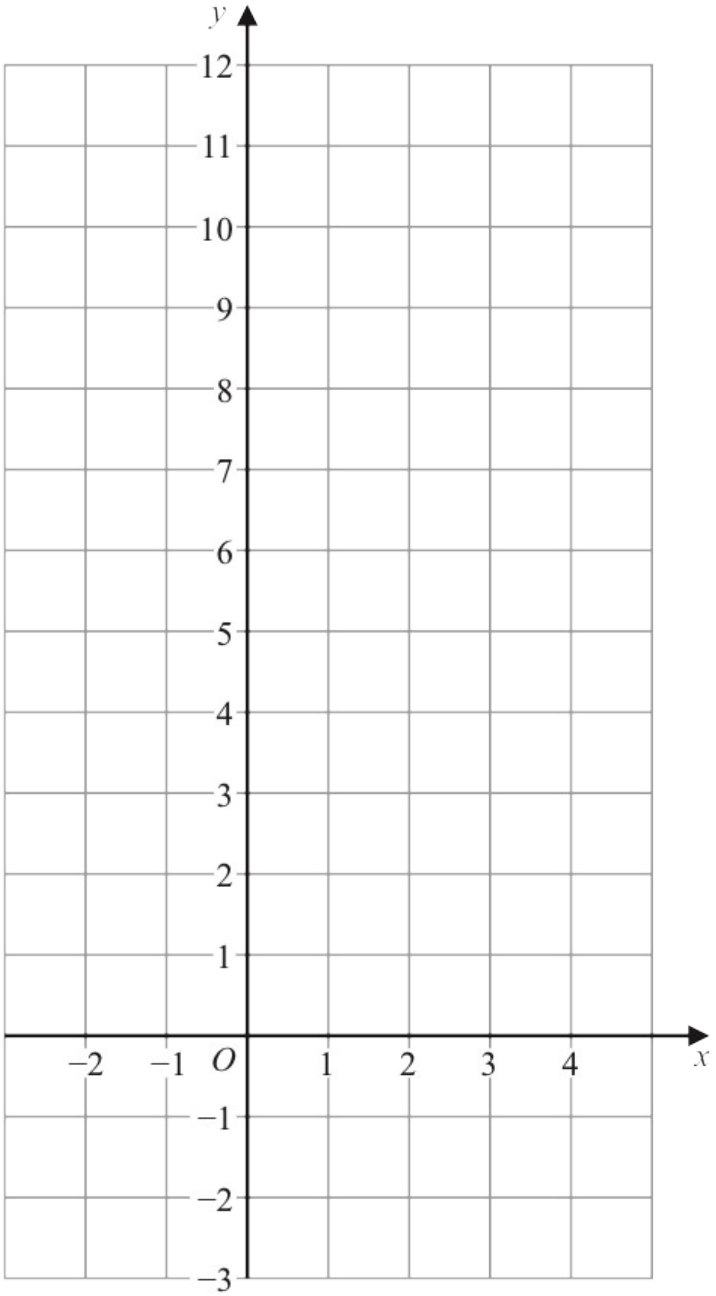


(c) Write down an equation for the straight line that passes through D and C.

.....

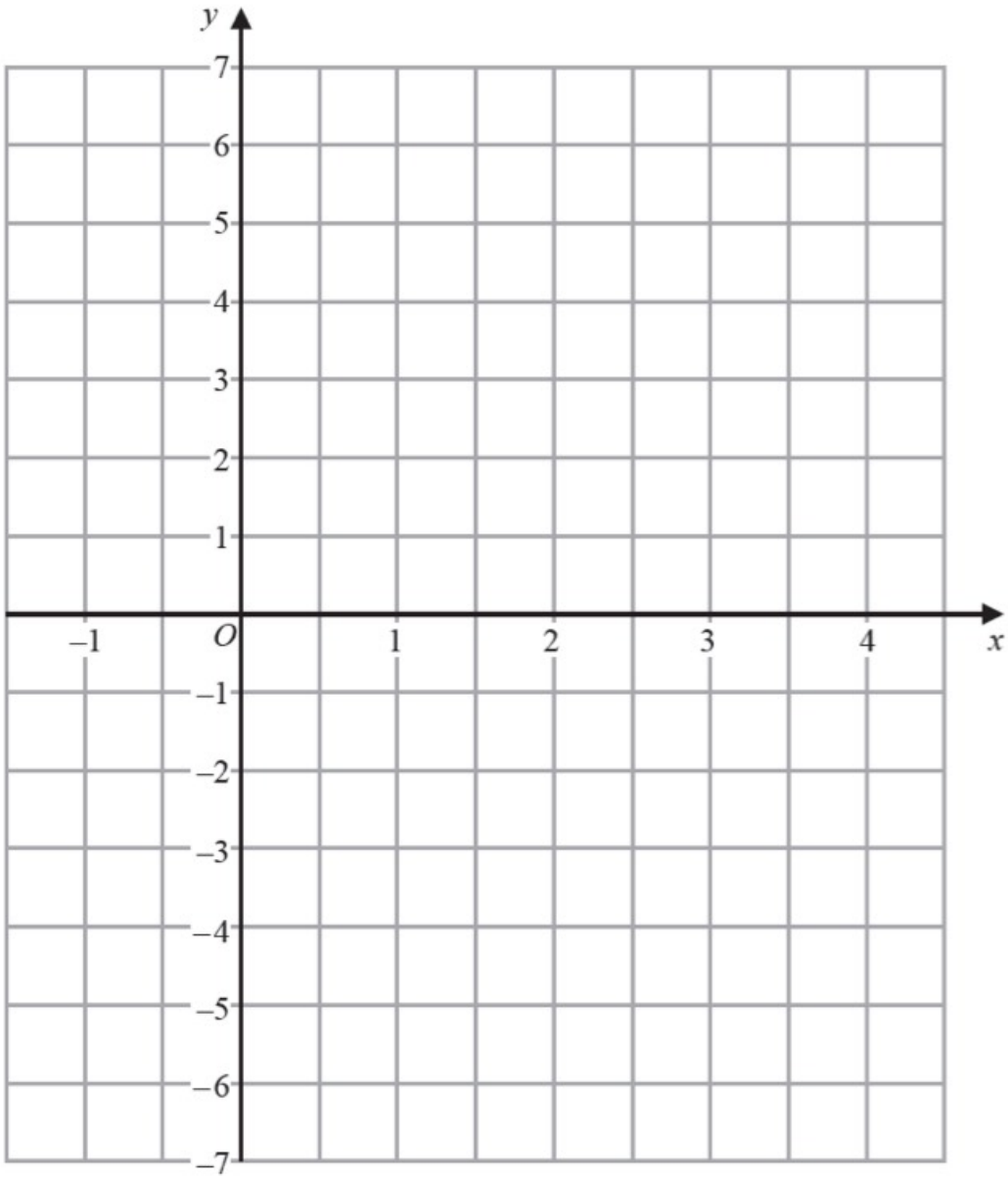
(1)

14 On the grid, draw the graph of $y = 2x + 3$ for values of x from -2 to 4



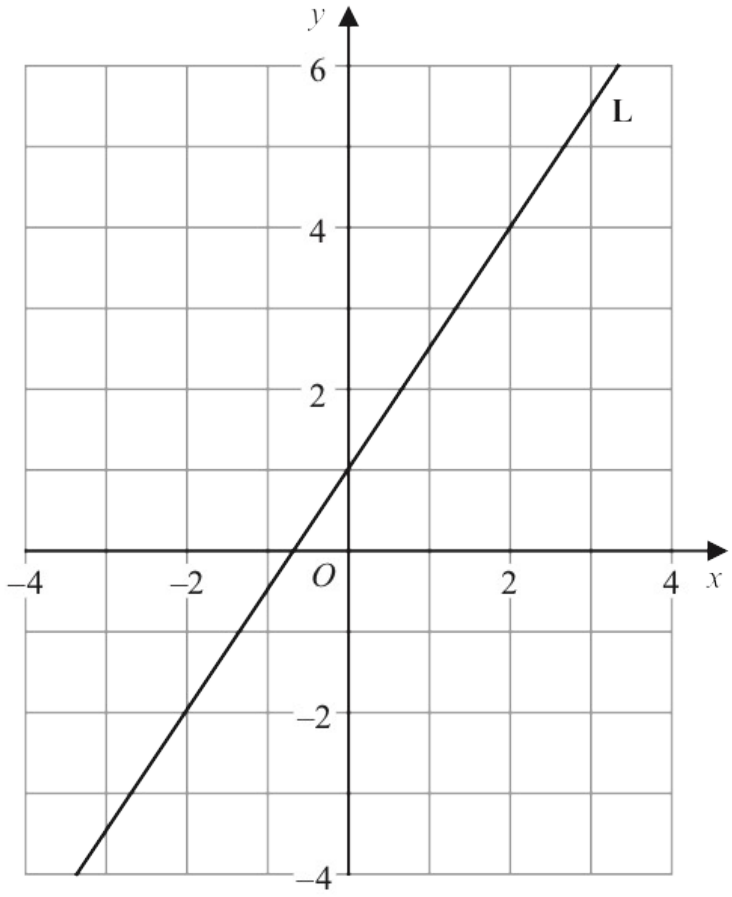
(Total for Question 14 is 3 marks)

12 On the grid, draw the graph of $y = 2x - 3$ for values of x from -1 to 4



(Total for Question 12 is 3 marks)

24 The line **L** is drawn on the grid.



Find an equation for **L**.

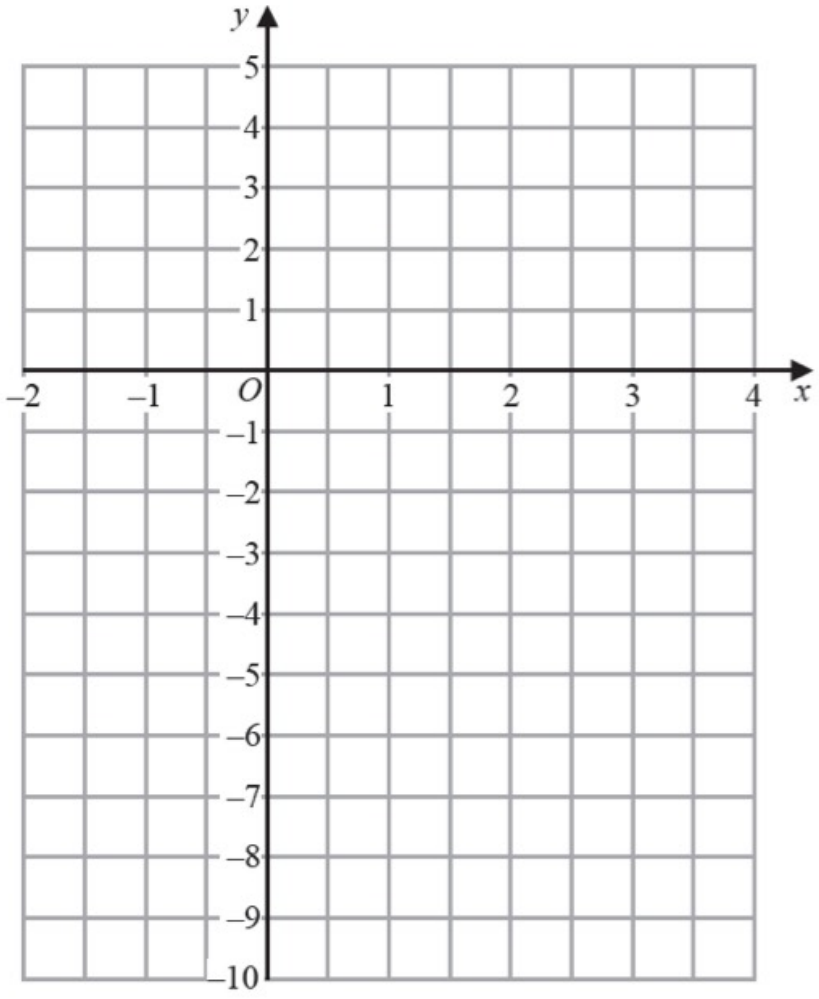
(Total for Question 24 is 3 marks)

(a) Complete the table of values for $y = 2x - 5$

x	−2	−1	0	1	2	3	4
y		−7			−1	1	

(2)

(b) On the grid, draw the graph of $y = 2x - 5$ for values of x from −2 to 4



(2)

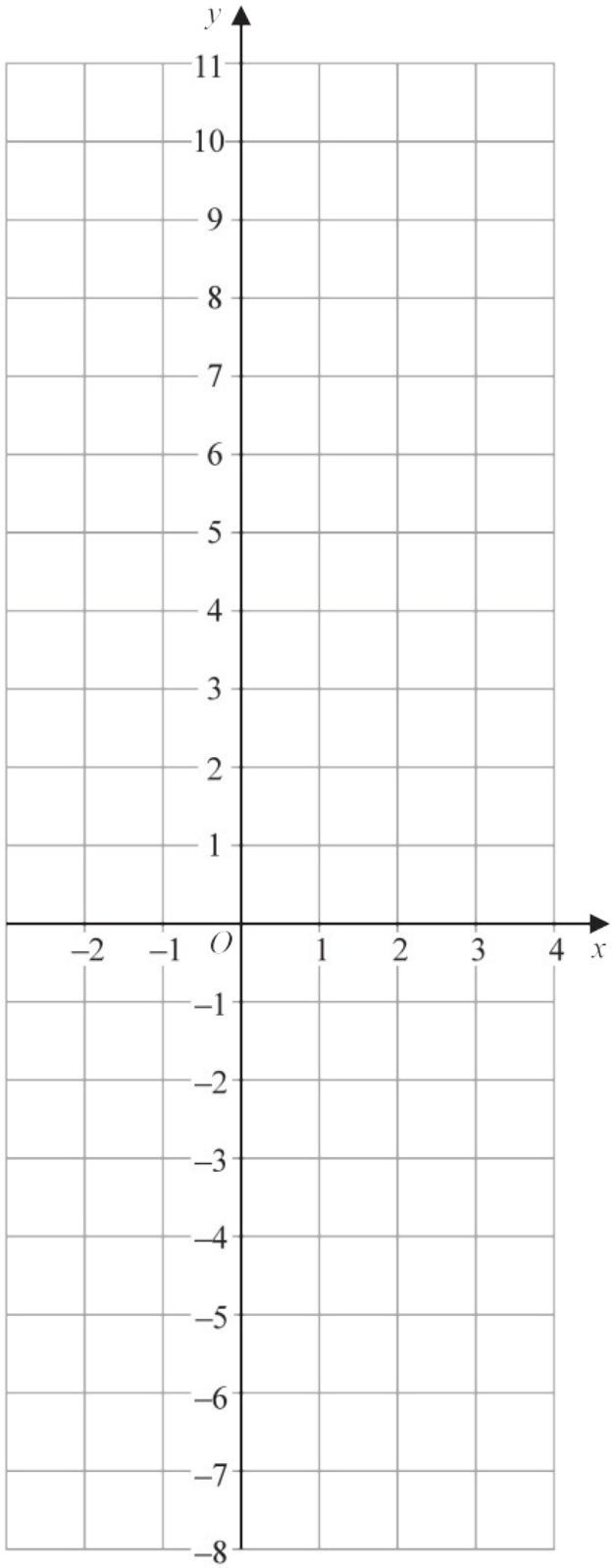
(c) Mark with a cross (×) a point on the grid that has coordinates satisfying both

$$x < 2 \text{ and } y > 2x - 5$$

Label this point P.

(2)

12 On the grid, draw the graph of $y = 3x - 1$ for values of x from -2 to 3



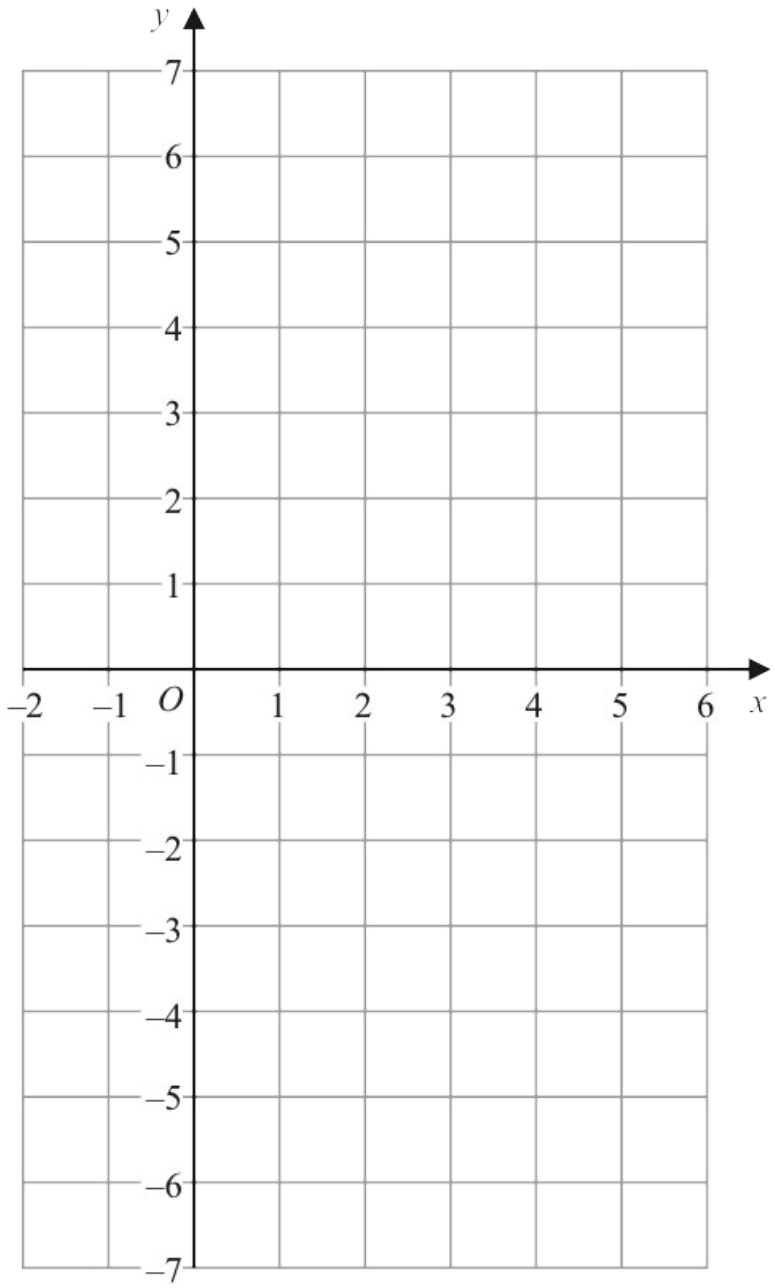
(Total for Question 12 is 3 marks)

22 The straight line **L** has gradient 5 and passes through the point with coordinates $(0, -3)$

(a) Write down an equation for **L**.

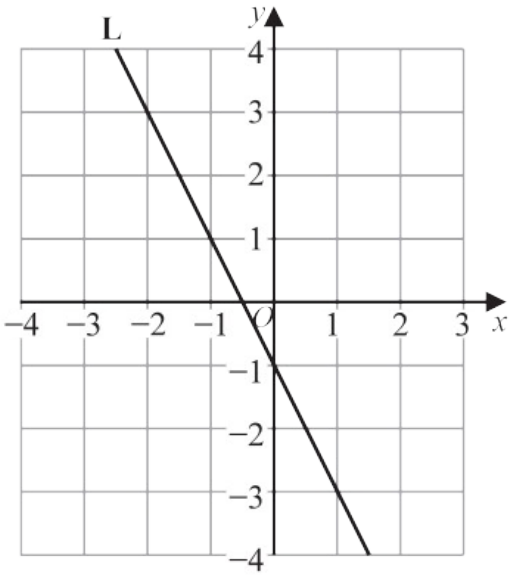
(2)

11 On the grid, draw the graph of $y = 2x - 3$ for values of x from -1 to 5



(Total for Question 11 is 3 marks)

26 Line **L** is drawn on the grid.



Find an equation for **L**.

.....

(Total for Question 26 is 3 marks)

14 The point A has coordinates $(5, -4)$
The point B has coordinates $(13, 1)$

(a) Work out the coordinates of the midpoint of AB.

(..... , ...)

(2)

Line **L** has equation $y = 2 - 3x$

(b) Write down the gradient of line **L**.

.....

(1)

Line **L** has equation $y = 2 - 3x$

(c) Does the point with coordinates $(100, -302)$ lie on line **L**?
You must give a reason for your answer.

.....

.....

.....

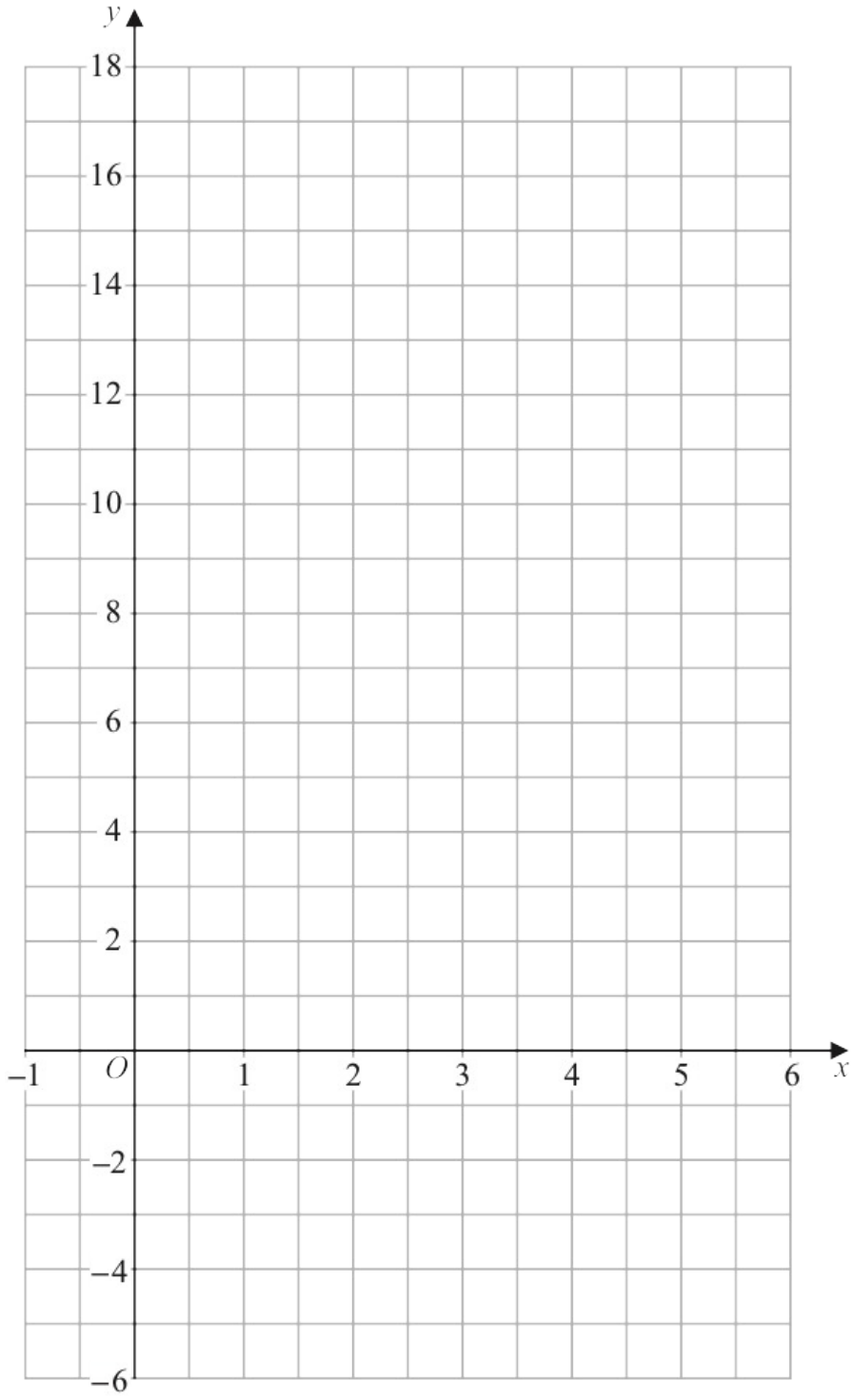
(1)

8 (a) Complete the table of values for $y = 3x - 1$

x	-1	0	1	2	3	4	5	6
y		-1		5			14	

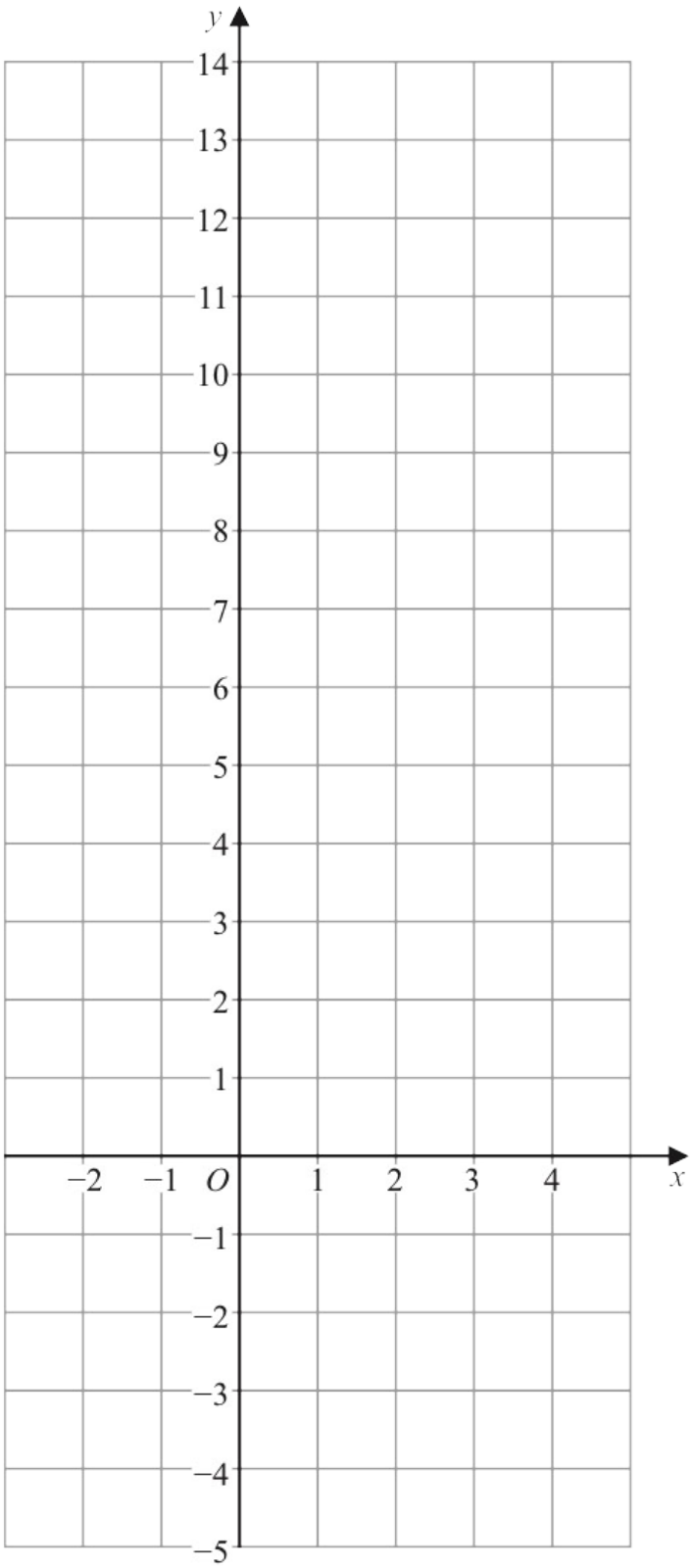
(2)

(b) On the grid, draw the graph of $y = 3x - 1$ for values of x from -1 to 6



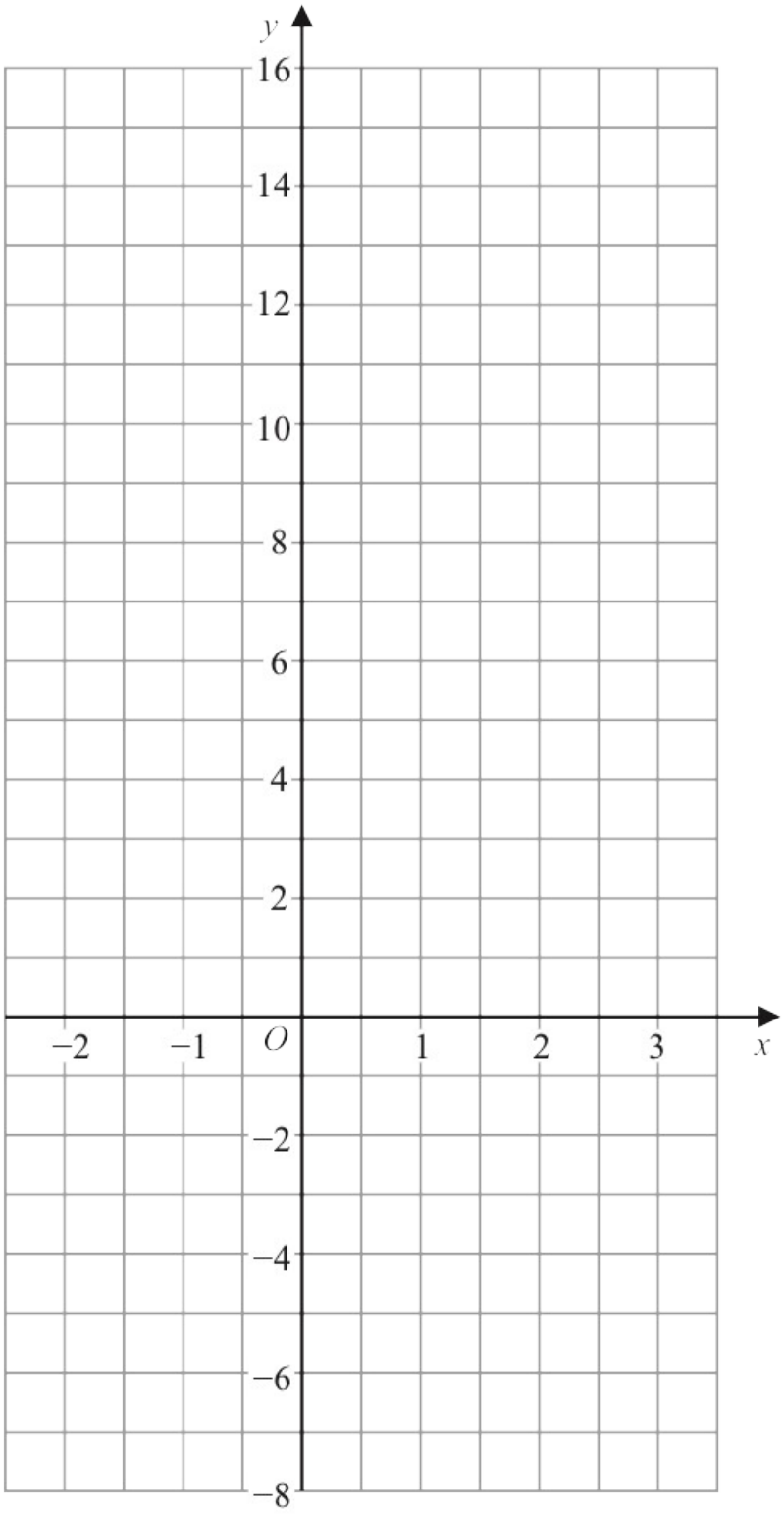
(2)

11 On the grid, draw the graph of $y = 3x + 2$ for values of x from -2 to 4



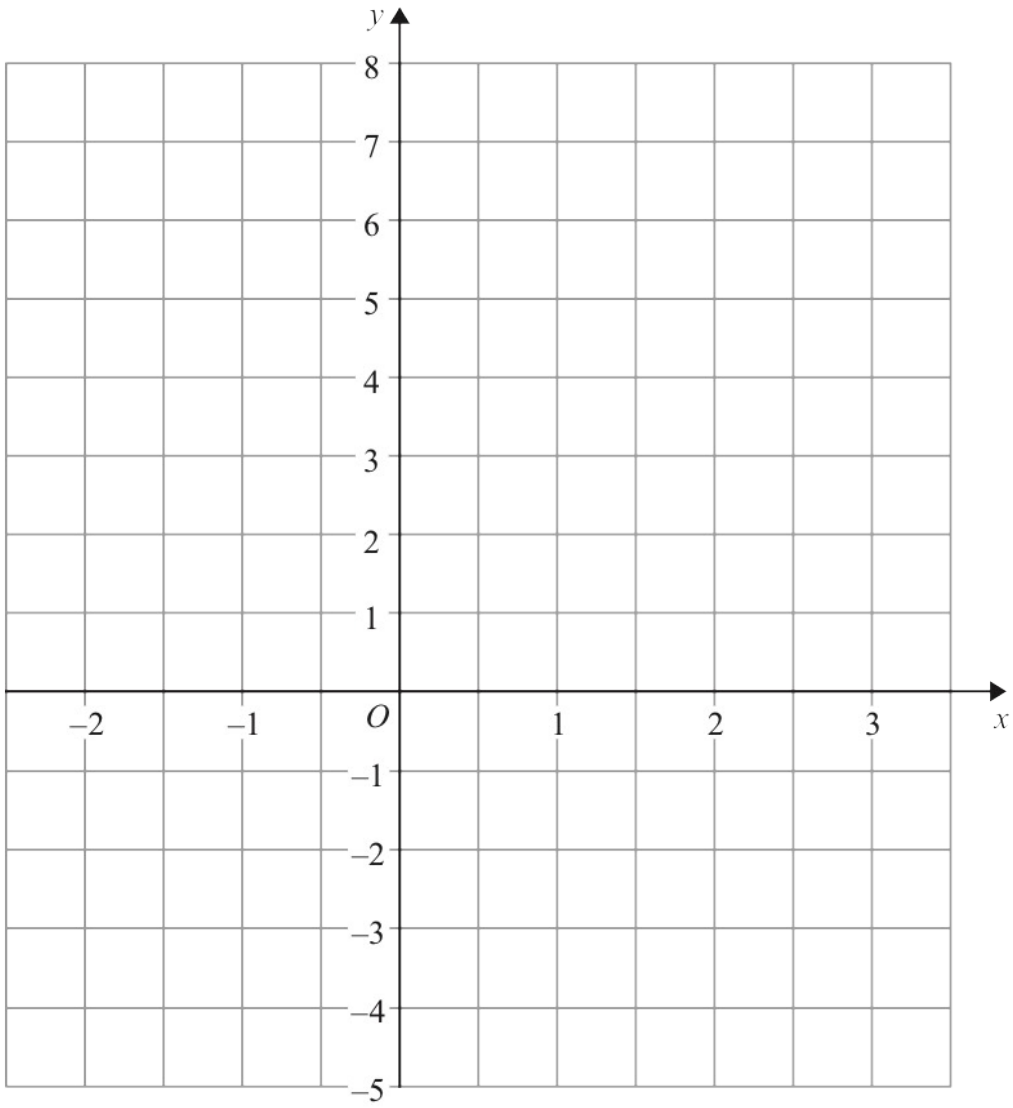
(Total for Question 11 is 3 marks)

16 On the grid, draw the graph of $y = 7 - 4x$ for values of x from -2 to 3



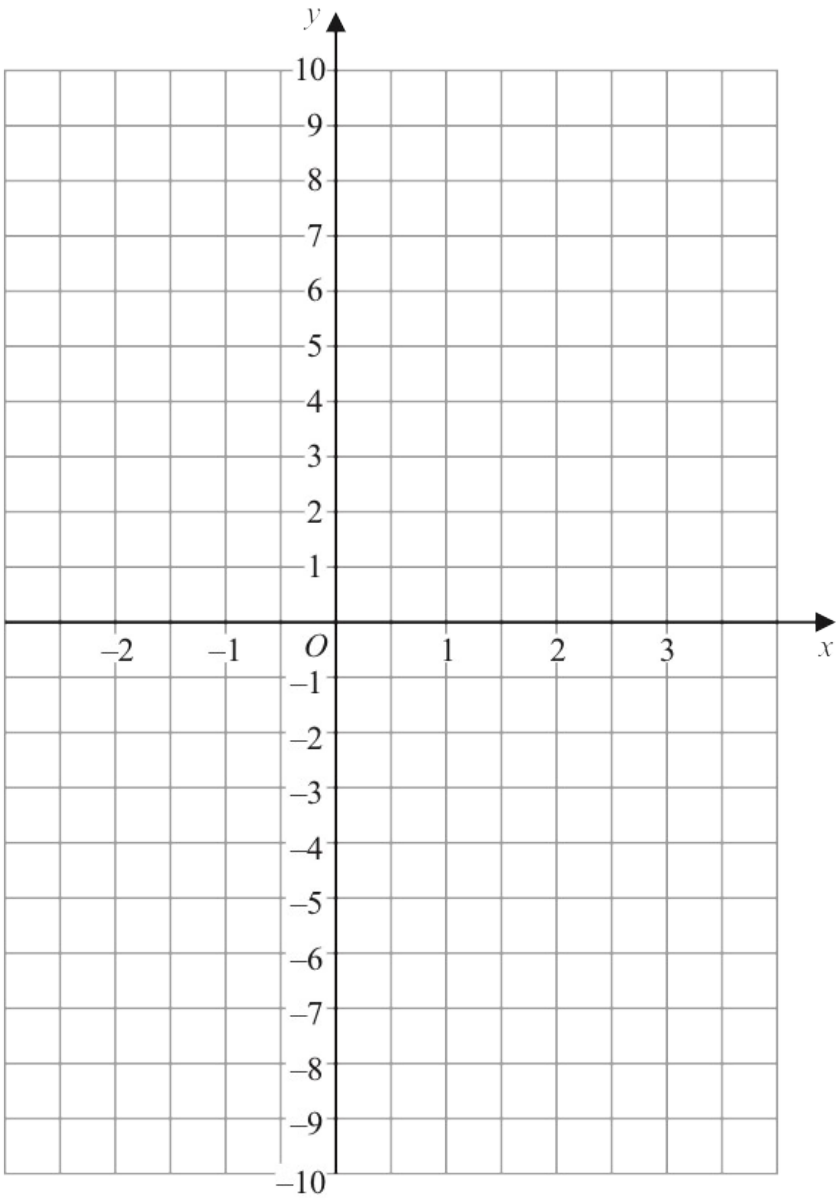
(Total for Question 16 is 3 marks)

11 On the grid, draw the graph of $y = 3 - 2x$ for values of x from -2 to 3



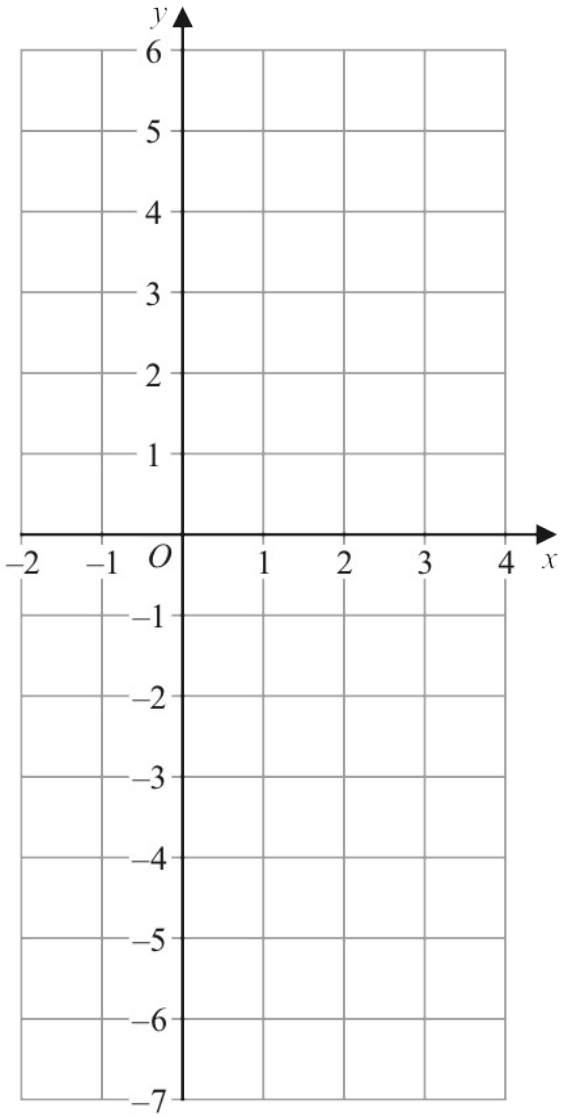
(Total for Question 11 is 3 marks)

14 On the grid below, draw the graph of $y = 1 - 3x$ for values of x from -2 to 3



(Total for Question 14 is 3 marks)

14 On the grid, draw the graph of $y = 2x - 3$ for values of x from -2 to 4



(Total for Question 14 is 3 marks)

25 The straight line **L** has equation $2y + 7x = 10$

(a) Find the gradient of **L**

.....

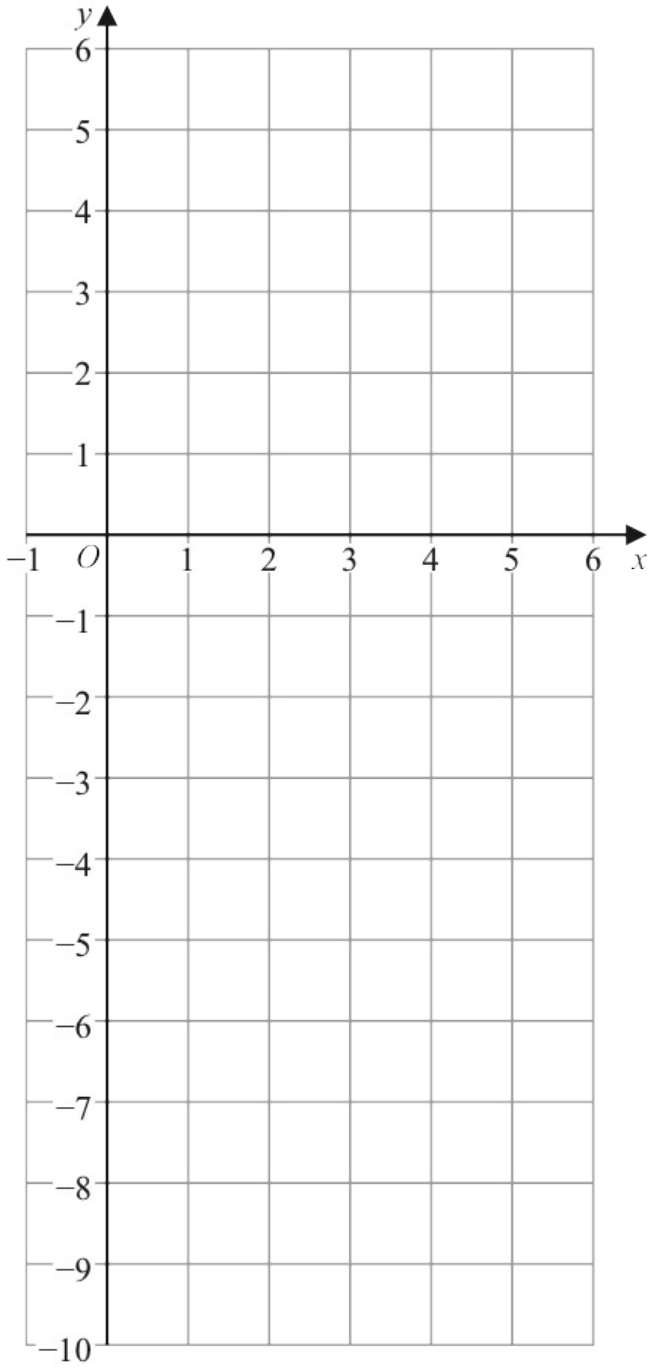
(2)

(b) Find the coordinates of the point where **L** crosses the y-axis.

(..... , ...)

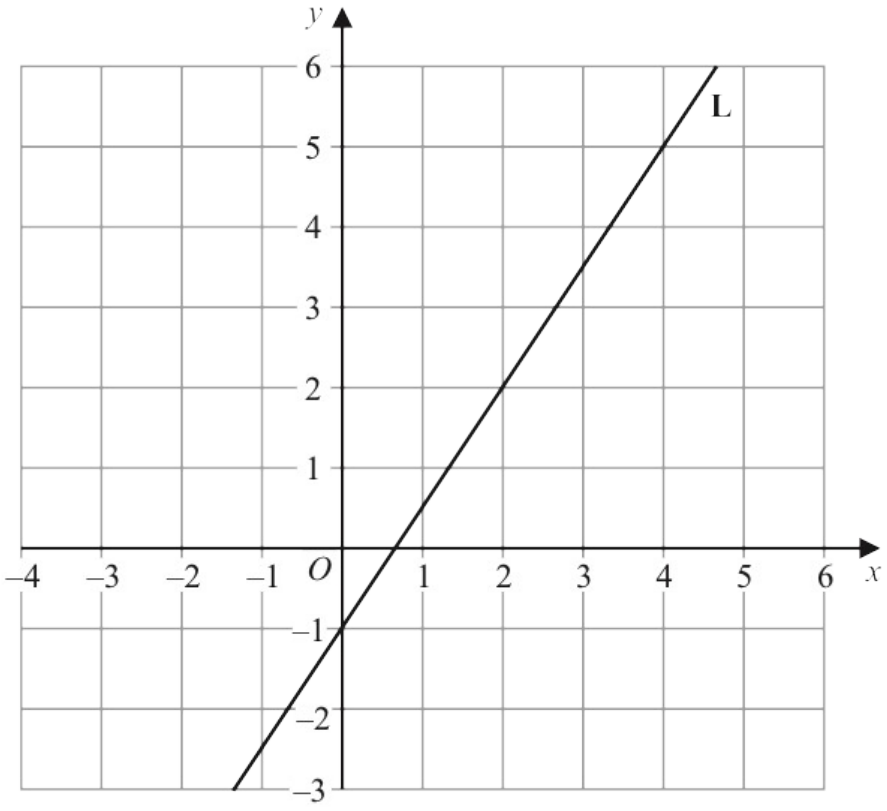
(1)

13 On the grid, draw the graph of $y = -2x + 3$ for values of x from -1 to 5



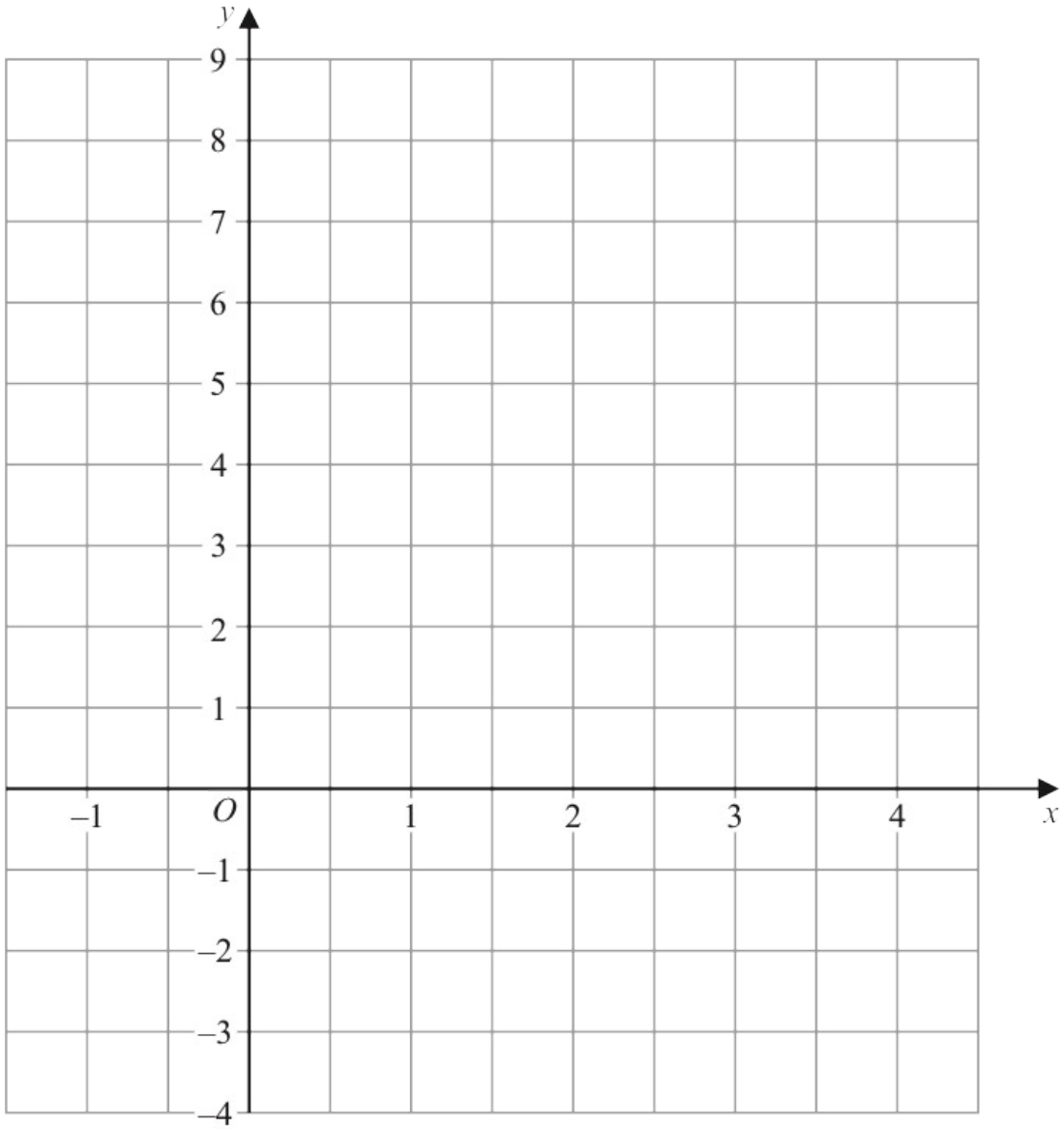
(Total for Question 13 is 3 marks)

26 Line **L** is drawn on the grid.



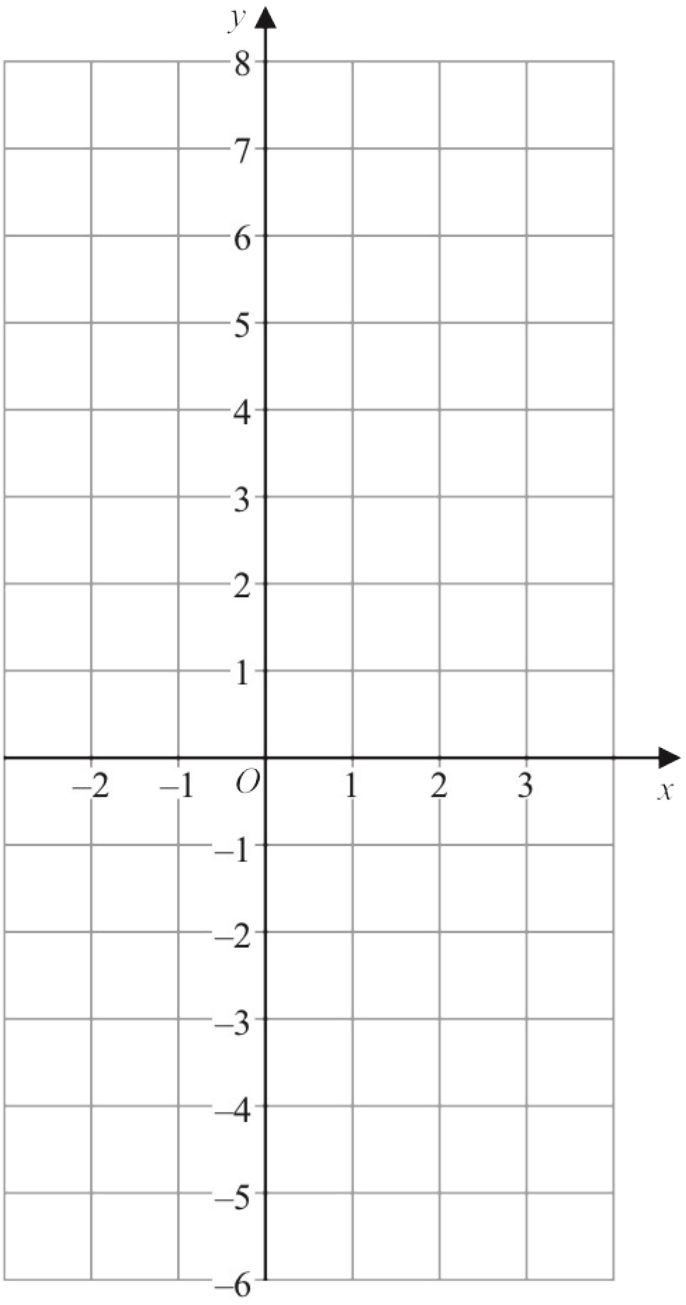
Find an equation for **L**
Give your answer in the form $y = mx + c$

14 On the grid, draw the graph of $y = 2x - 1$ for values of x from -1 to 4



(Total for Question 14 is 3 marks)

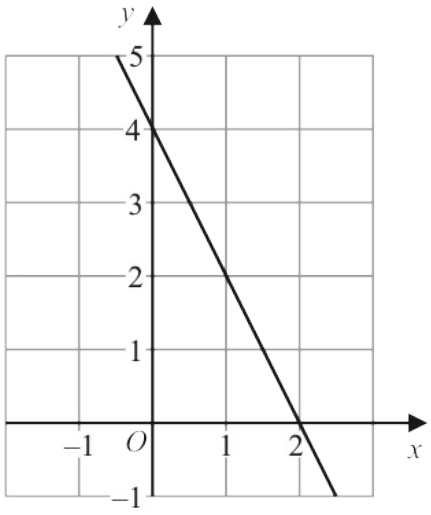
11 On the grid below, draw the graph of $y = 1 - 2x$ for values of x from -2 to 3



(Total for Question 11 is 3 marks)

24

The diagram shows a straight line drawn on a grid.

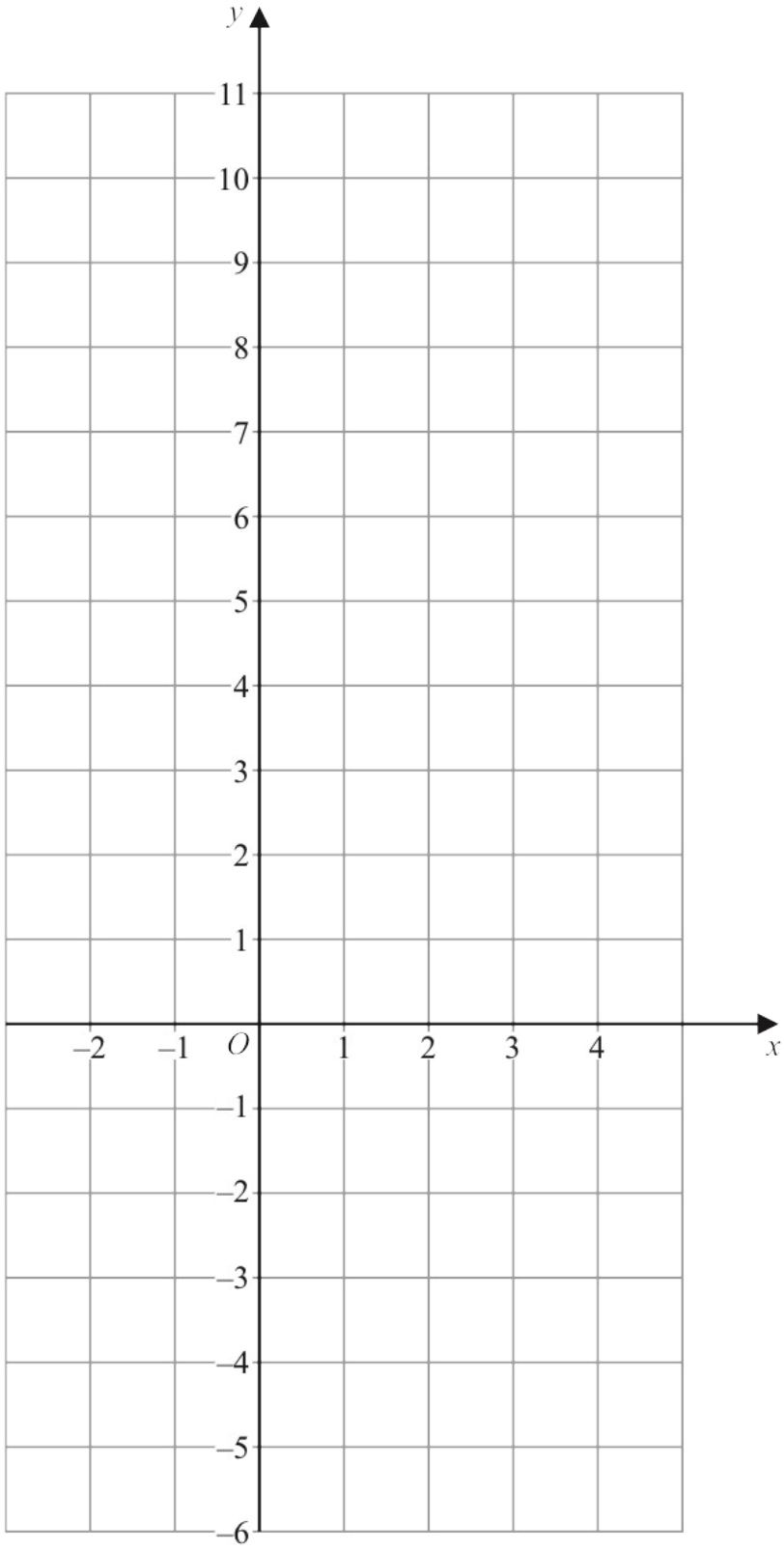


(d) Write down an equation of the line.

.....

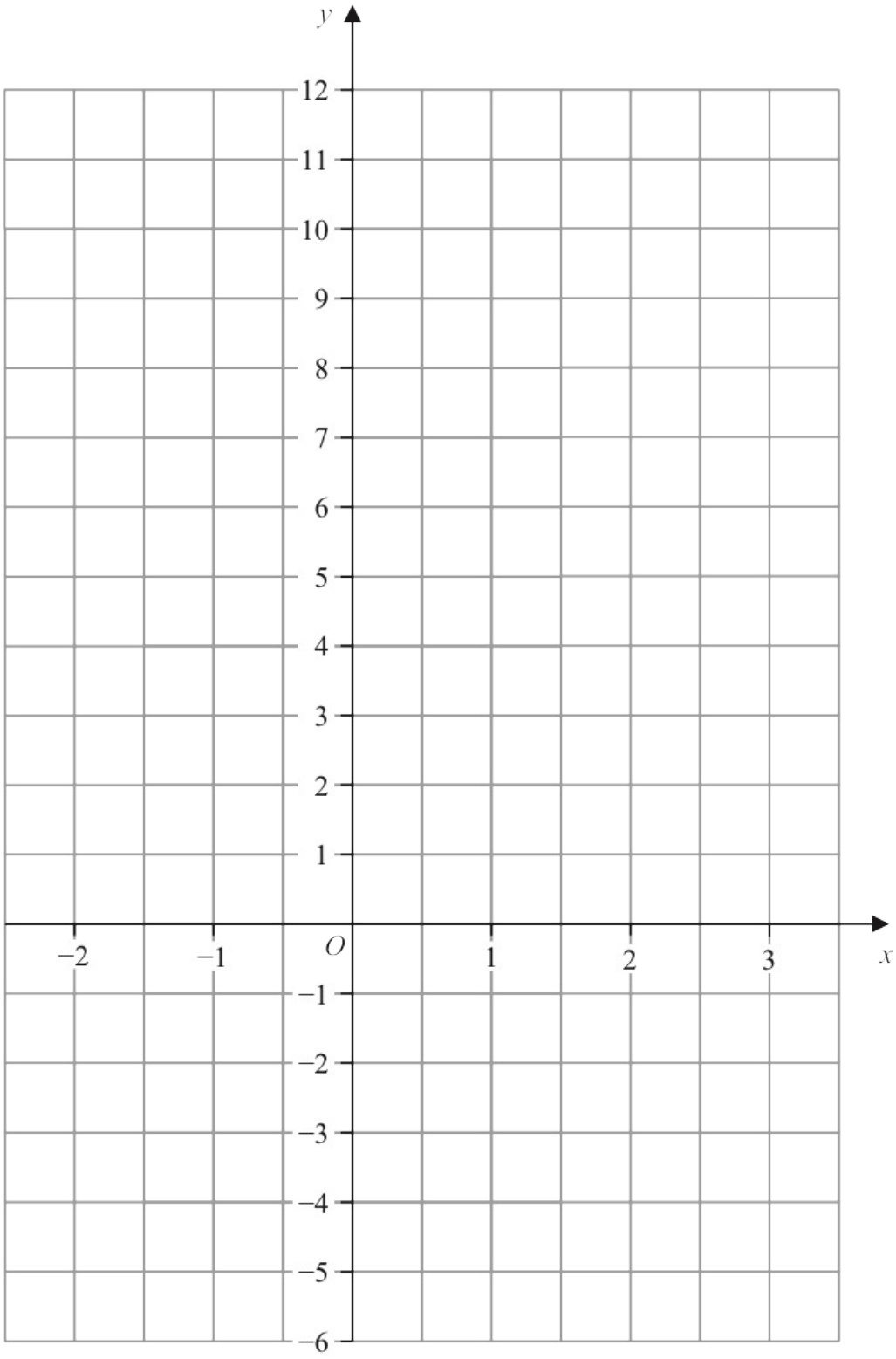
(2)

19 On the grid, draw the graph of $5x + 2y = 10$ for values of x from -2 to 4



(Total for Question 19 is 3 marks)

12 On the grid below, draw the graph of $y = 5 - 3x$ for values of x from -2 to 3



(Total for Question 12 is 3 marks)

25 A straight line passes through the points with coordinates $(0, -3)$ and $(2, 0)$

Find an equation of the line.

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