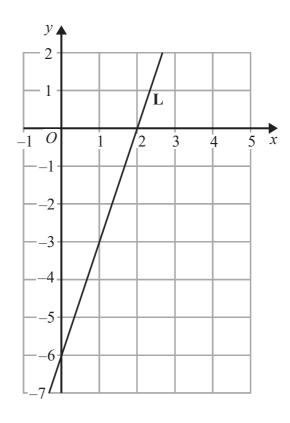
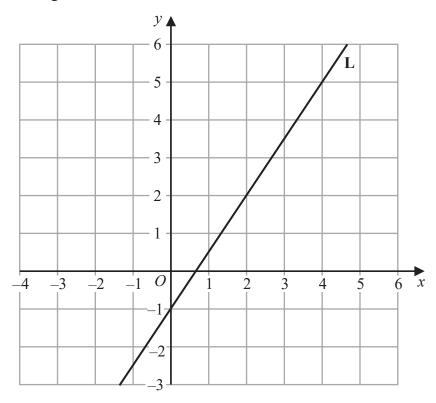
1 The line L is shown on the grid.



Find an equation for L.

(Total for Question 1 is 3 marks)

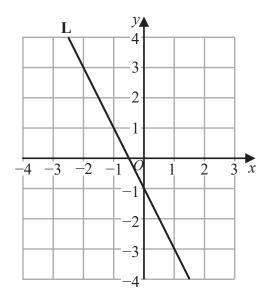
2 Line L is drawn on the grid.



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

(Total for Question 2 is 3 marks)

3 Line L is drawn on the grid.



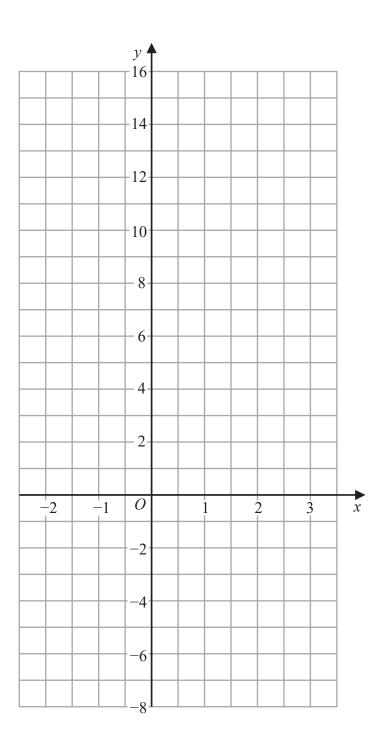
Find an equation for L.

.....

(Total for Question 3 is 3 marks)

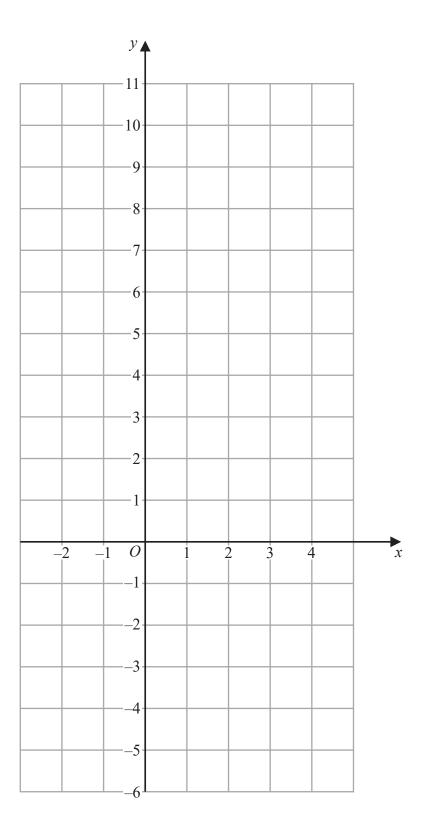
4

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



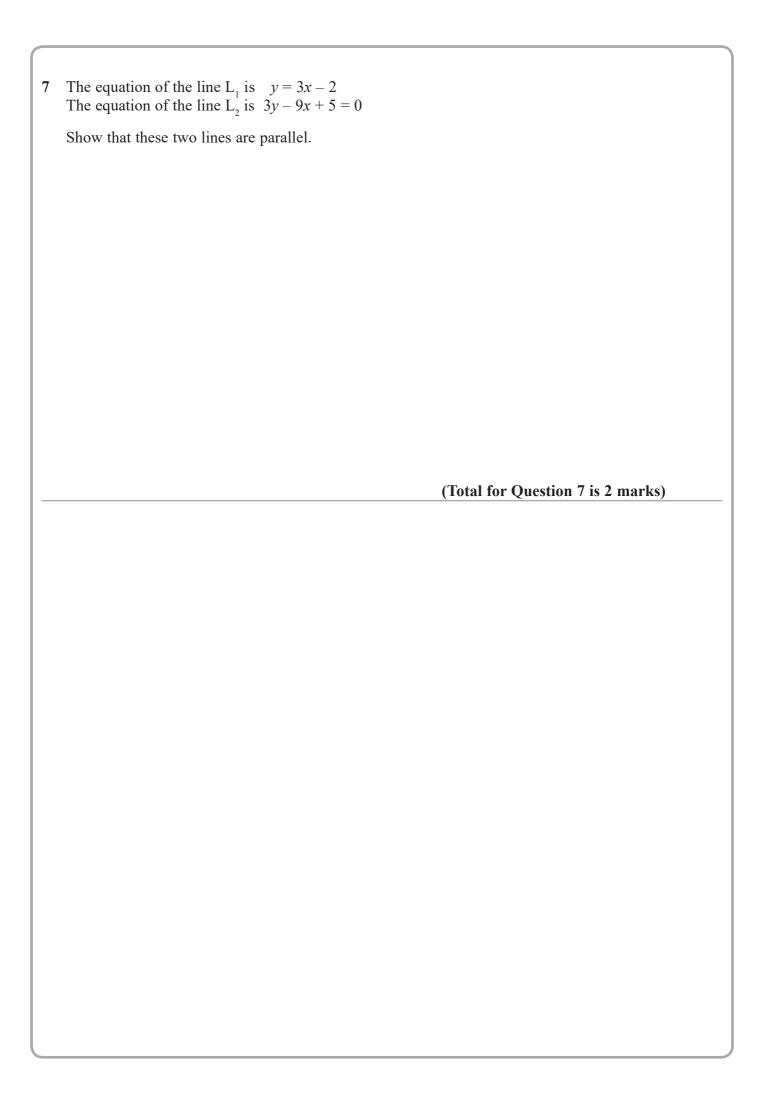
(Total for Question 4 is 3 marks)

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



(Total for Question 5 is 3 marks)

I	Here are the equations of two	straight lines.	
		$y = \frac{1}{2}x - 6$	6y = 3x + 7
		2	·
(	Oscar says that these lines are	parallel.	
	Is Oscar correct?		
	You must give a reason for yo	our answer.	
			 (Total for Overtion 6 is 2 may
_			(Total for Question 6 is 2 marl

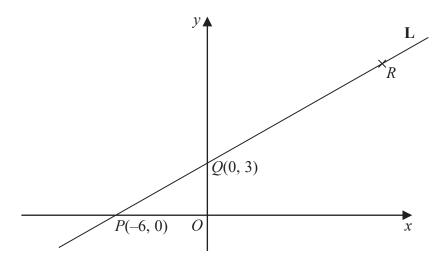


8	The equation of the line $L_1$ is $y = 2x + 3$ The equation of the line $L_2$ is $5y - 10x + 4 = 0$
	Show that these two lines are parallel.
	(Total for Question 8 is 2 marks)

9	A and B are points on a centimetre grid. A is the point with coordinates $(-7, 6)$ B is the point with coordinates $(8, -5)$
	Work out the length of $AB$ . Give your answer correct to 1 decimal place.
	cm
_	(Total for Question 9 is 2 marks)

10	A is the point with coordinates (5, 9)
10	B is the point with coordinates $(3, 9)$
	The gradient of the line $AB$ is 3
	Work out the value of $d$ .
	(Total for Question 10 is 3 marks)

11 Here is a sketch of the line L.



The points P(-6, 0) and Q(0, 3) are points on the line L.

The point R is such that PQR is a straight line and PQ:QR=2:3

(a) Find the coordinates of R.



(b) Find an equation of the line that is perpendicular to L and passes through Q.

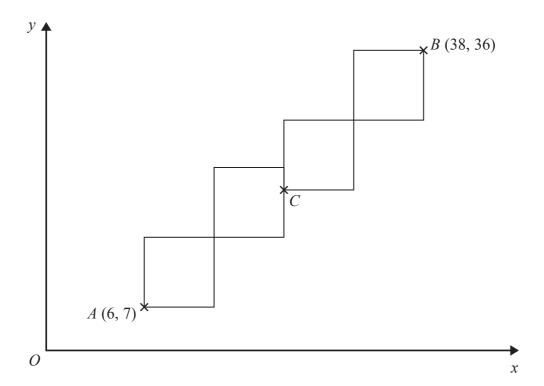
(3)

(Total for Question 11 is 5 marks)

12	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 $N$ .
	(,)
	(

13 A pattern is made from four identical squares.

The sides of the squares are parallel to the axes.



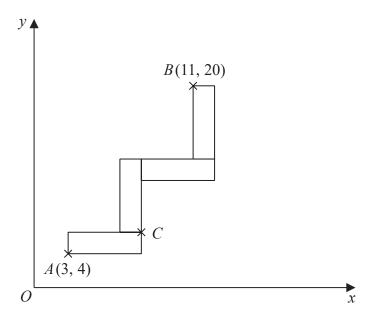
Point *A* has coordinates (6, 7) Point *B* has coordinates (38, 36)

Point *C* is marked on the diagram.

Work out the coordinates of C.

(Total for Question 13 is 5 marks)

**14** A pattern is made from four identical rectangles. The sides of the rectangles are parallel to the axes.



Point *A* has coordinates (3, 4) Point *B* has coordinates (11, 20) Point *C* is marked on the diagram.

Work out the coordinates of *C*. You must show all your working.

(.....,

15	The straight line $L_1$ has equation $y = 3x - 4$ The straight line $L_2$ is perpendicular to $L_1$ and passes through the point (9, 5)
	Find an equation of line $L_2$
	(Total for Question 15 is 3 marks)
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16	The straight line L has the equation $3y = 4x + 7$ The point A has coordinates $(3, -5)$
	Find an equation of the straight line that is perpendicular to $\mathbf{L}$ and passes through $A$ .
	(Total for Question 16 is 3 marks)
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