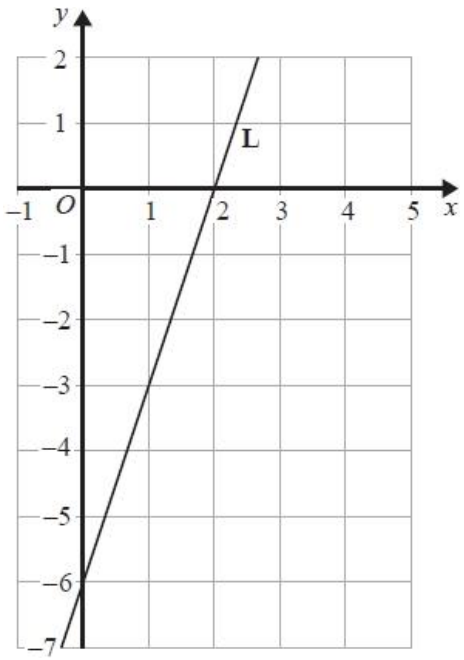
A075 Straight line graphs 1

Q1.

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



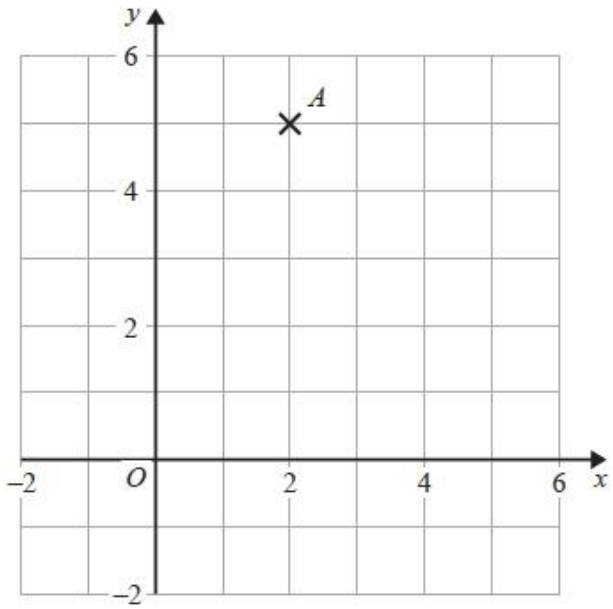
Find an equation for **L**.

.....

(Total for question = 3 marks)

Q2.

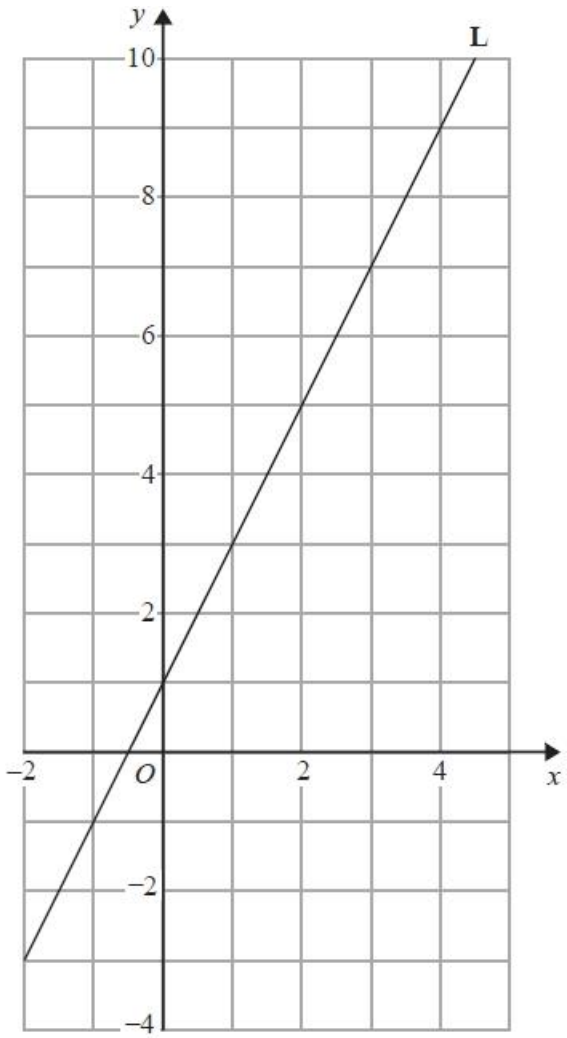
Find an equation of the straight line with gradient 3 that passes through point *A*.



(Total for question = 2 marks)

Q3.

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



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

.....

(Total for question is 3 marks)

Q4.

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*.

.....

(Total for question = 3 marks)

Q5.

A is the point with coordinates (2, 10)
B is the point with coordinates (5, *d*)

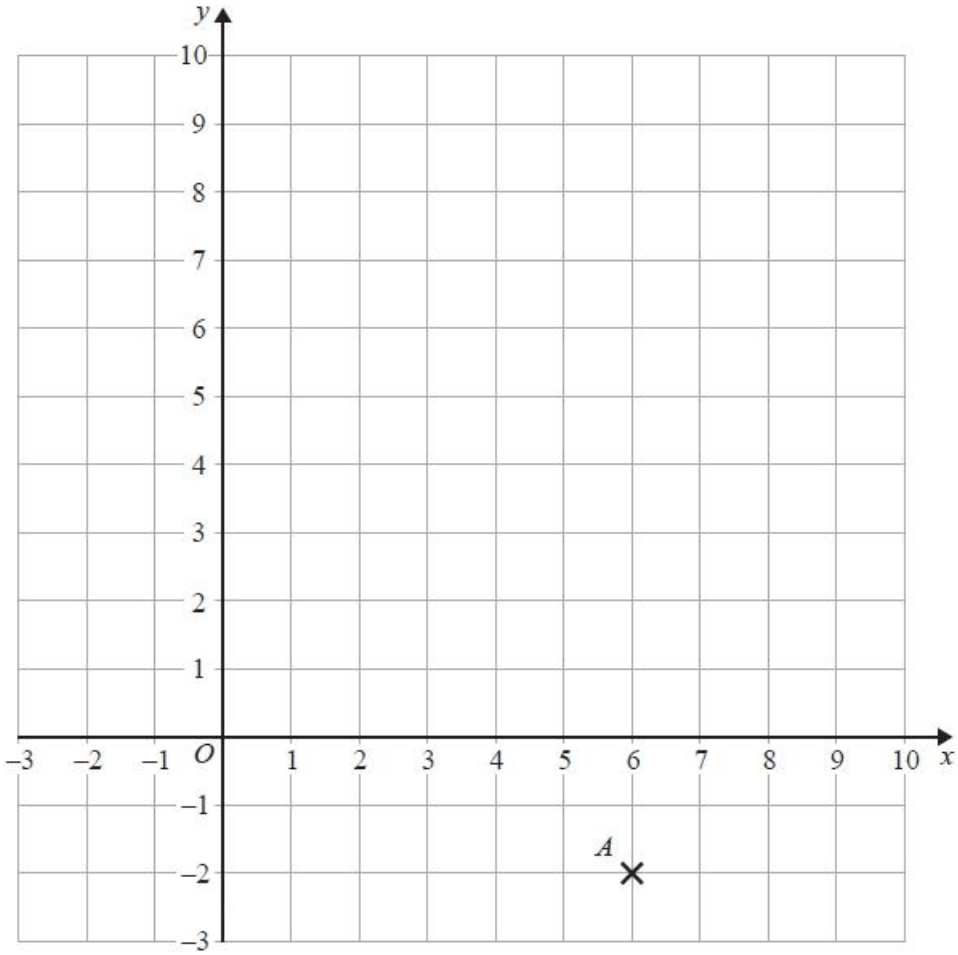
The gradient of the line *AB* is 4

Work out the value of *d*.

d = ...

(Total for question = 3 marks)

Q6.



(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)

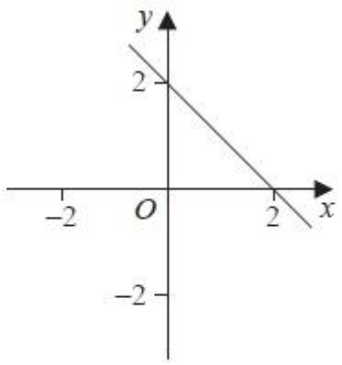
(c) On the grid, draw the line with equation $x = -2$

(1)

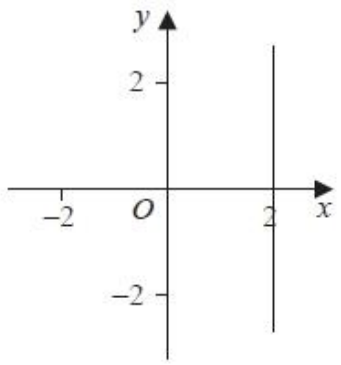
(Total for question = 4 marks)

Q7.

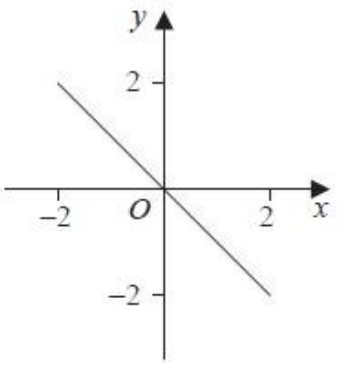
Here are six straight line graphs.



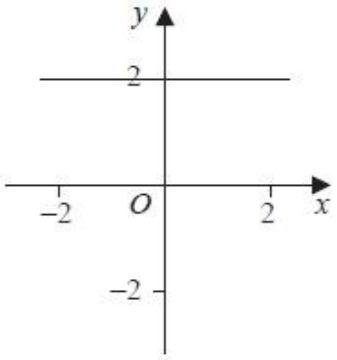
Graph **A**



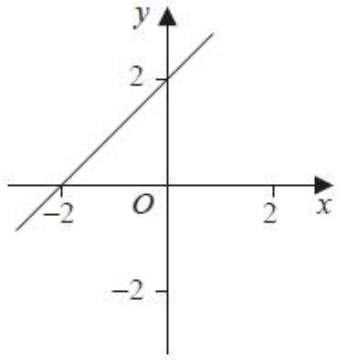
Graph **B**



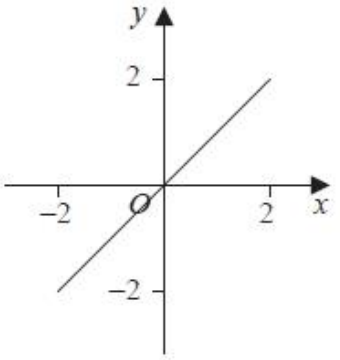
Graph **C**



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 = 2 marks)

Q8.

Here are the equations of four straight lines.

Line A $y = 2x + 4$
Line B $2y = x + 4$
Line C $2x + 2y = 4$
Line D $2x - y = 4$

Two of these lines are parallel.
Write down the two parallel lines.

Line ..... and line .....

(Total for question is 1 mark)

Q9.

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 = 2 marks)