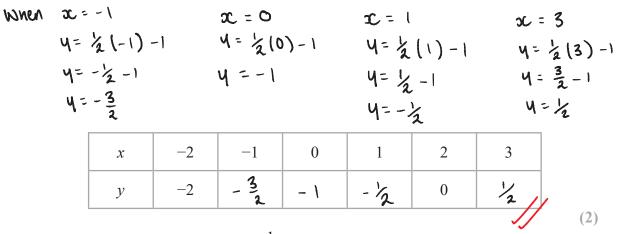
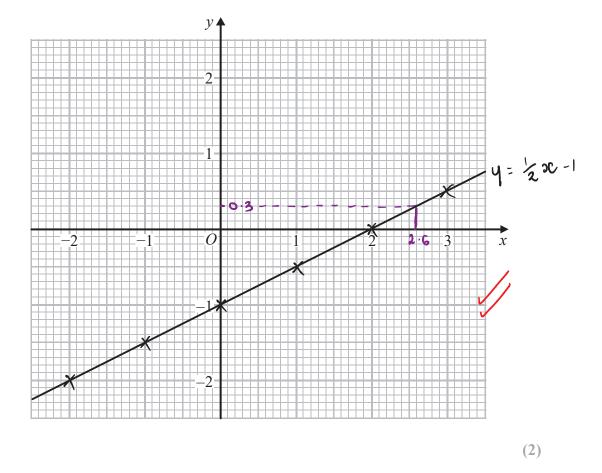
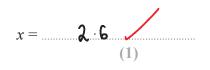
1. (a) Complete the table of values for  $y = \frac{1}{2}x - 1$ 



(b) On the grid, draw the graph of  $y = \frac{1}{2}x - 1$  for values of x from -2 to 3

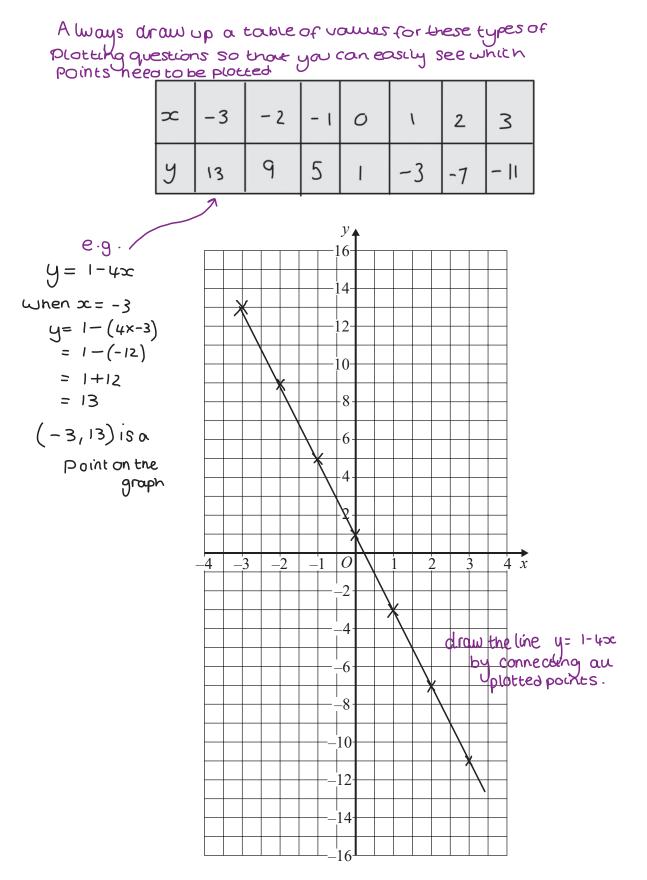


(c) Use your graph to find the value of x when y = 0.3



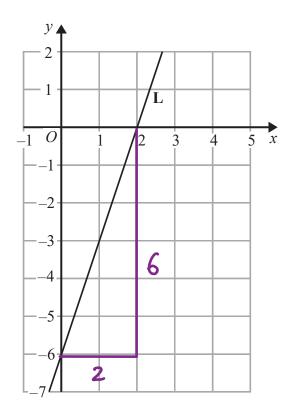
(Total for Question is 5 marks)

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

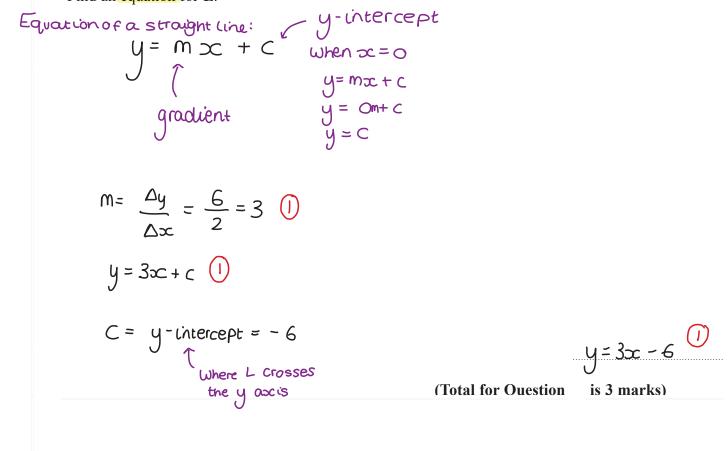


(Total for Question is 3 marks)

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



Find an equation for L.



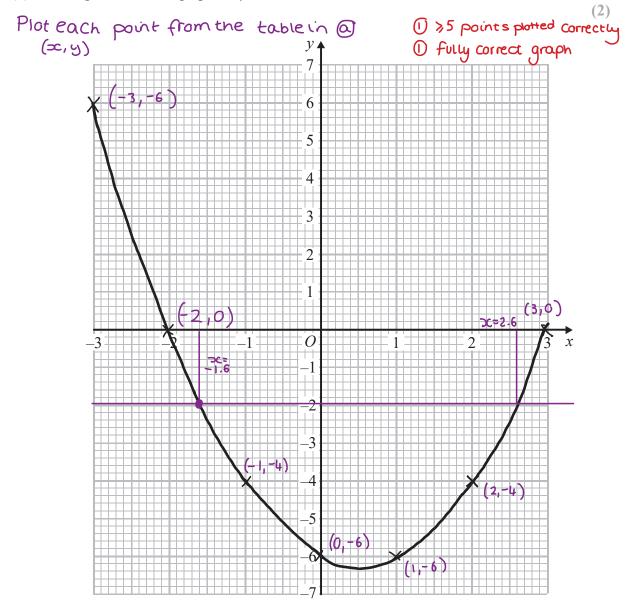
4. (a) Complete the table of values for  $y = x^2 - x - 6$ 

x	-3	-2	-1	0	1	2	3
у	6	0	-4	- 6	-6	- 4	0

Substitute each  $\infty$  value into  $y=x^2-x-6$ to obtain the corresponding y value (same column in table)

e.g. when 
$$x = -2$$
  $y = x^{2} - x - 6$   
=  $(-2)^{2} - (-2) - 6$   
=  $4 + 2 - 6$   
 $y = 0$  (2)

(b) On the grid, draw the graph of  $y = x^2 - x - 6$  for values of x from -3 to 3



(c) Use your graph to find estimates of the solutions to the equation  $x^2 - x - 6 = -2$ 

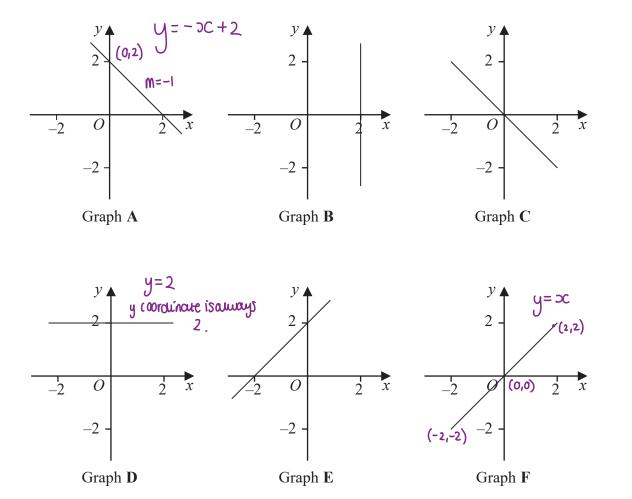
- · Draw the line y=-2 onto the graph ()
- \* Find the x values of the 2 points at which the line y = -2 and the curve y = x<sup>2</sup> - x - 6 cross

 $\overline{y} = \infty^2 - \infty - 6$ -1.6 and 2.6

(Total for Question

is 6 marks)

**5**. Here are six straight line graphs.



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

For every so value, the  
y coordinate is 2 
$$(x,2)$$
  
Rearrange into a more  $x + y = 2$  A
  
 $x + y = 2$  (Total for Question is 2 marks)
  
 $y = -x + 2 = y$  intercept  $(0,2)$ 
  
 $\int gradient of -1$ 

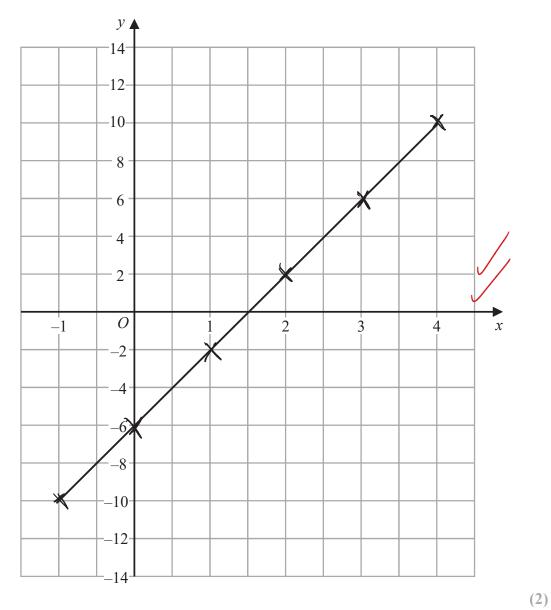
## PhysicsAndMathsTutor.com

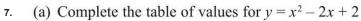
# Edexcel Maths GCSE - Graphs of Linear Equations (F)

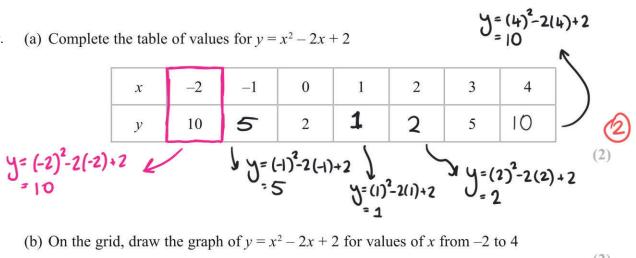
6. (a) Complete the table of values for y = 4x - 6

When 
$$x=0$$
  $y=4(0)-6$  when  $x=3$   $y=4(3)-6$   
 $y=-6$   $y=6$  (2)

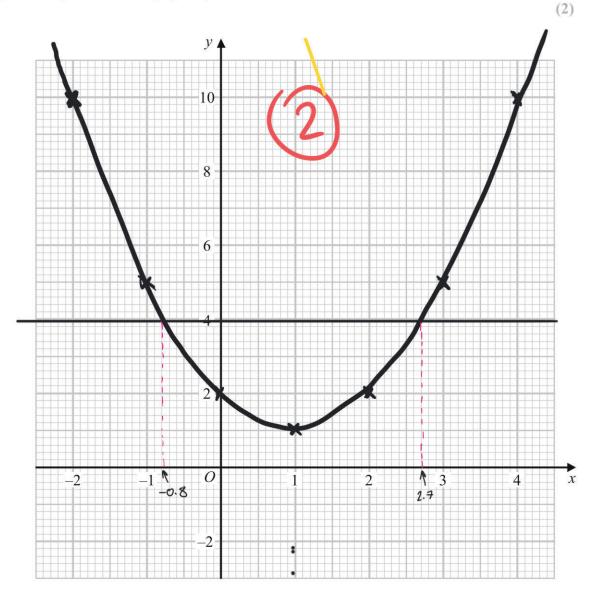
(b) On the grid, draw the graph of y = 4x - 6 for values of x from -1 to 4







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



(c) Use your graph to find estimates of the solutions of the equation  $x^2 - 2x + 2 = 4$ 

 $y = x^{2} - 2x + 2$  y = 4 y = 4 and see where 1 (1) (1)  $y = x^{2} - 2x + 2$   $y = x^{2} - 2x + 2$ (2)