1 Find the gradient of the straight line with equation 5x + 2y = 7

Rearrange equation to

$$y = mx + c$$
 $5x + 2y = 7$
 $2y = -5x + 7$
 $y = -\frac{5}{2}x + \frac{7}{2}$

Solution of the content of the

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

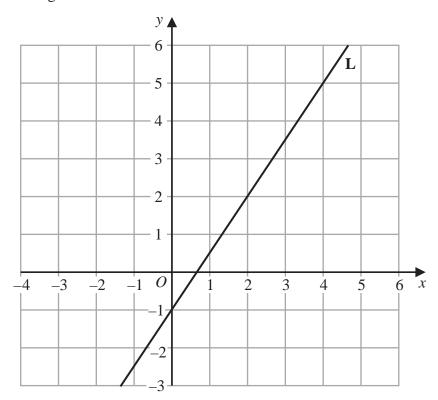
2 (b) Write down the gradient of line **L**.

$$y = \frac{-3}{2}x + 2$$



(Total for Question 2 is 1 marks)

3 Line L is drawn on the grid.



Find an equation for L

Give your answer in the form y = mx + c

gradient :
$$\frac{5-(-1)}{4-0}$$

$$: \frac{6}{4} = \frac{3}{2}$$

$$y = \frac{3}{2} \times -1$$

$$y = \frac{3}{2} \times -1$$

- **4** The straight line **L** has equation 2y + 7x = 10
 - (a) Find the gradient of L

$$2y = -7x + 10$$
 (1)
 $y = -\frac{7}{2}x + 5$



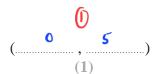
(b) Find the coordinates of the point where L crosses the y-axis.

$$x = 0$$

$$y = -\frac{7}{2}(0) + 5$$

$$y = 5$$

$$(0,5)$$



(Total for Question 4 is 3 marks)