Drawing and recognising the graph of a linear equations

1. **(a)** Copy and complete the table of values for the line with equation $y = 2x - 1$.

x	−2	−1	0	1	2	3
y	−5		−1		3	

(b) Write down the set of points to be plotted.

(−2, −5) , (−1,) , (0, −1)……..(3,)

(c) Draw and label a set of axes, and plot the points.

(d) Draw the line with equation $y = 2x - 1$. [1, 1, 1, 1]

2. **(a)** Draw theline with equation $y = -2$

(b) Draw the line with equation $x = 3$

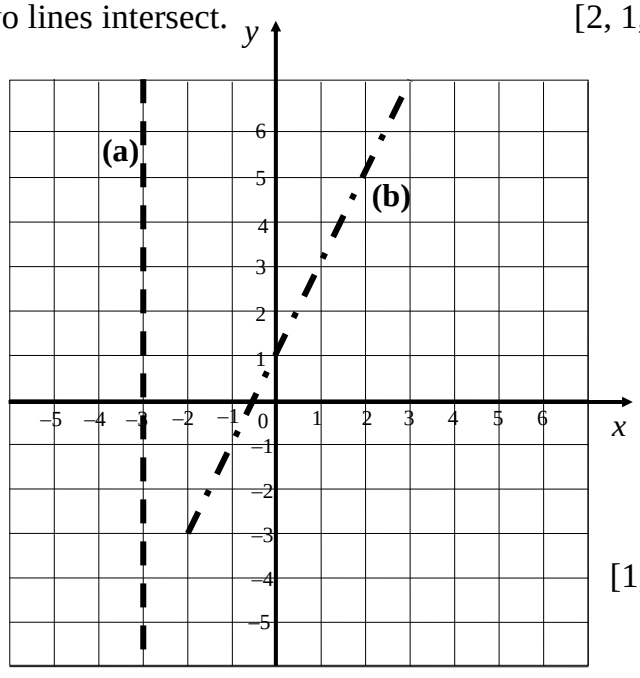
(c) Write down the coordinates of the point where these two lines intersect. [1, 1, 1]

3. **(a)** Draw the line with equation $y = x - 2$.

(b) On the same diagram, draw the line with equation $y = 4$.

(c) Write down the point where the two lines intersect. [2, 1, 1]

4. Write down the equations of the lines shown in the diagram.



[1, 2]

5. Write down the gradient and y – intercept of the line with equation $y = 3 - 4x$. [2]

[16 marks]