

Plotting Straight-Line Graphs

For Pearson Edexcel GCSE Mathematics (1MA1) • Foundation tier

Name _____

Total marks: **24**

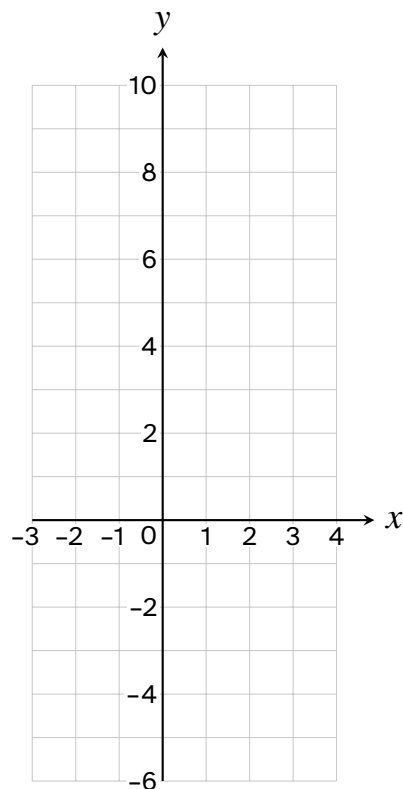
Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

- 1** (a) Complete the table of values for $y = 3x + 1$

x	-2	-1	0	1	2	3
y		-2			7	

(2)

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



(2)

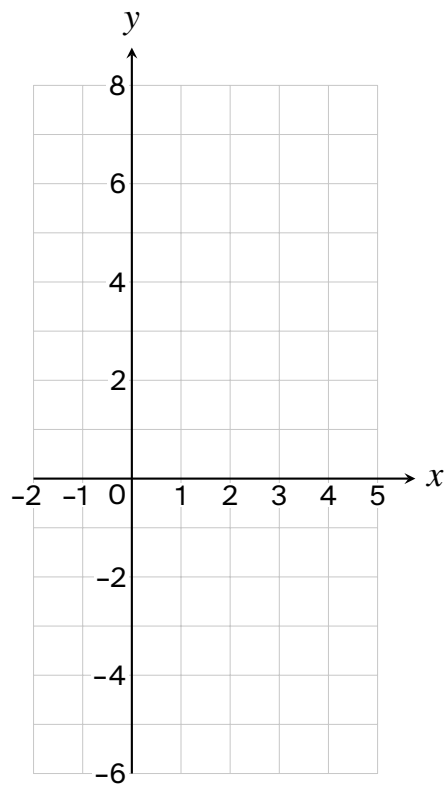
(Total for Question 1 is 4 marks)

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

x	-1	0	1	2	3	4
y		4		0		

(2)

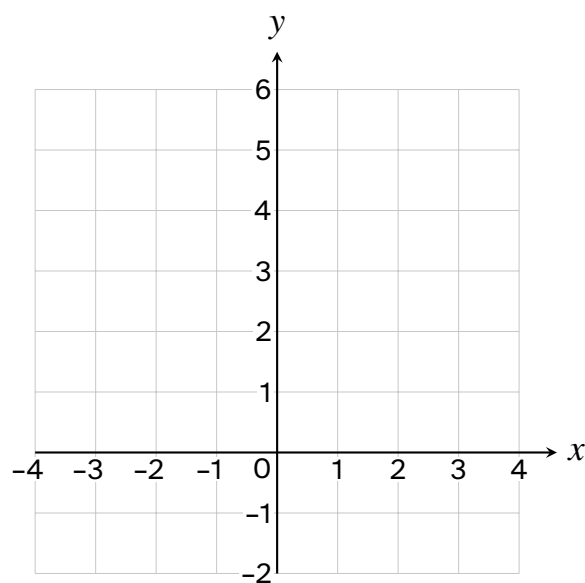
- (b) On the grid, draw the graph of $y = 4 - 2x$ for values of x from -1 to 4



(2)

(Total for Question 2 is 4 marks)

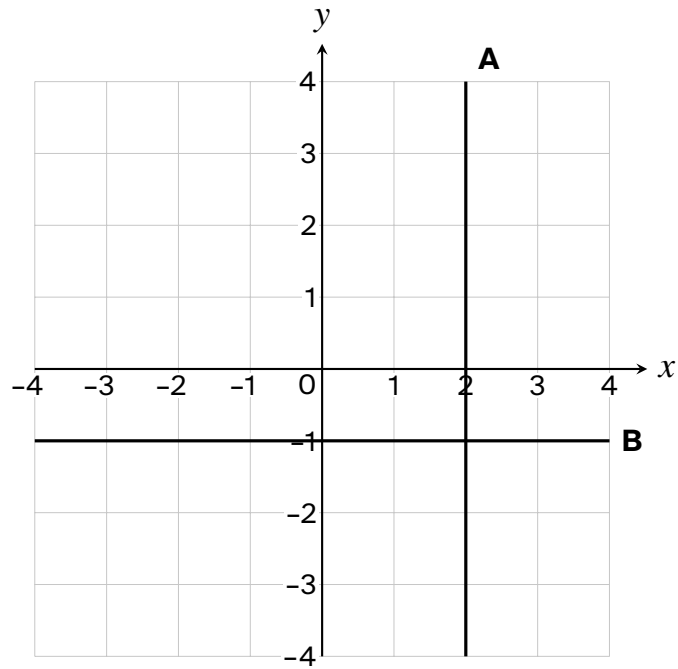
- 3** On the grid, draw the graph of $y = \frac{1}{2}x + 2$ for values of x from -4 to 4



(3)

(Total for Question 3 is 3 marks)

- 4 Lines **A** and **B** are drawn on the grid.



- (a) Write down the equation of line **A**.

.....
(1)

- (b) Write down the equation of line **B**.

.....
(1)

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

(1)

(Total for Question 4 is 3 marks)

- 5 Does the point $(-3, -7)$ lie on the line $y = 2x - 1$?
You must show how you get your answer.

(2)

(Total for Question 5 is 2 marks)

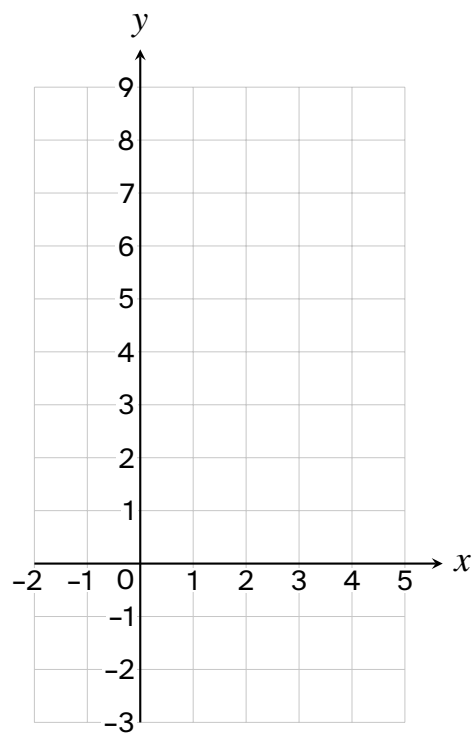
- 6 Find the coordinates of the point where the line $y = 5x - 10$ crosses the x -axis.

(..... ,)

(2)

(Total for Question 6 is 2 marks)

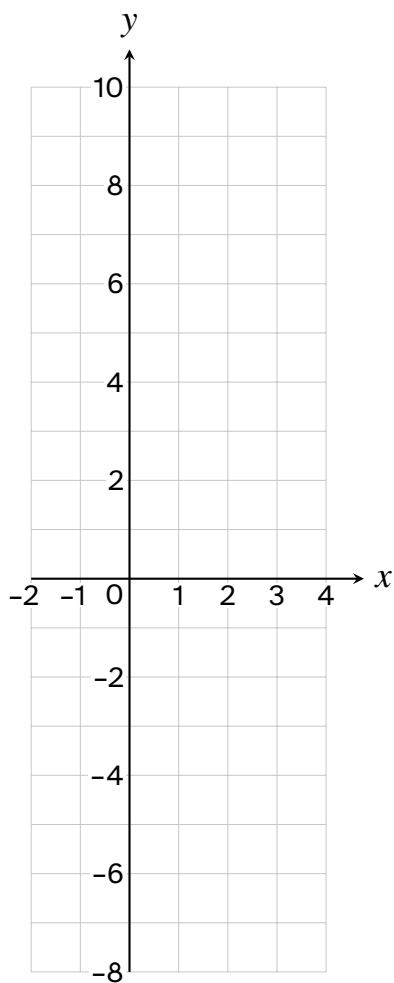
- 7 On the grid, draw the graph of $2x + y = 6$ for values of x from -1 to 4



(3)

(Total for Question 7 is 3 marks)

- 8** On the grid below, draw the graph of $y = 4x - 3$ for values of x from -1 to 3



(3)

(Total for Question 8 is 3 marks)
