

Plotting Linear Graphs Exam Questions

Solutions

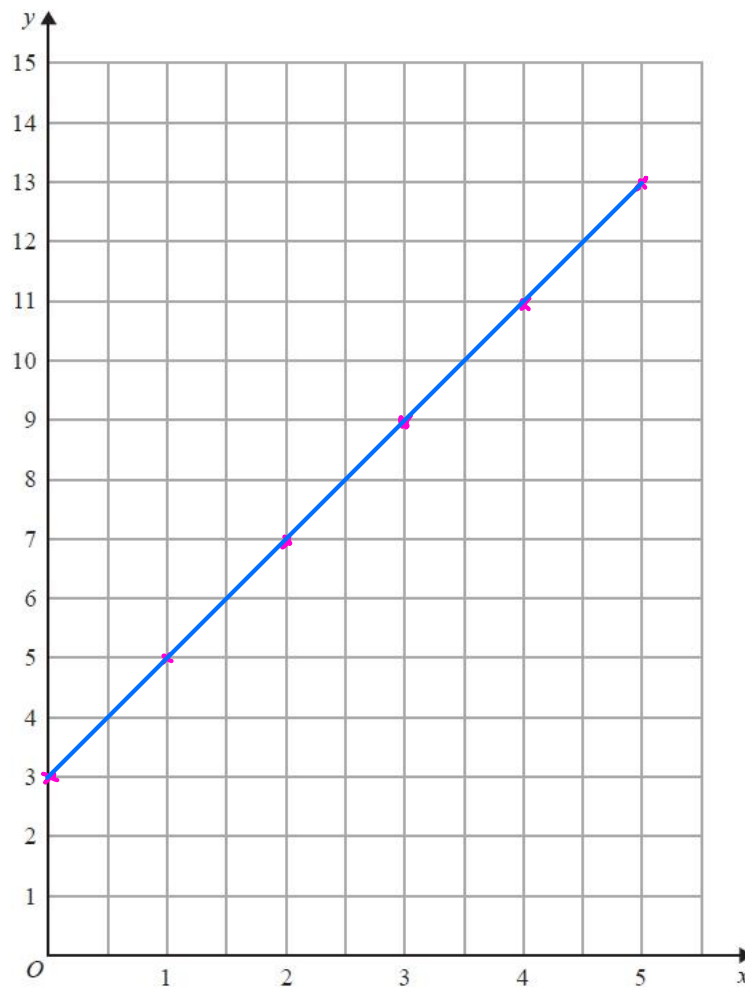
Q1.

(a) Complete the table of values for $y = 2x + 3$ for values of x from 0 to 5

x	0	1	2	3	4	5
y	3	5	7	9	11	13

(2)

(b) On the grid, draw the graph of $y = 2x + 3$ for values of x from 0 to 5



(2)

(Total for question = 4 marks)

Q2.

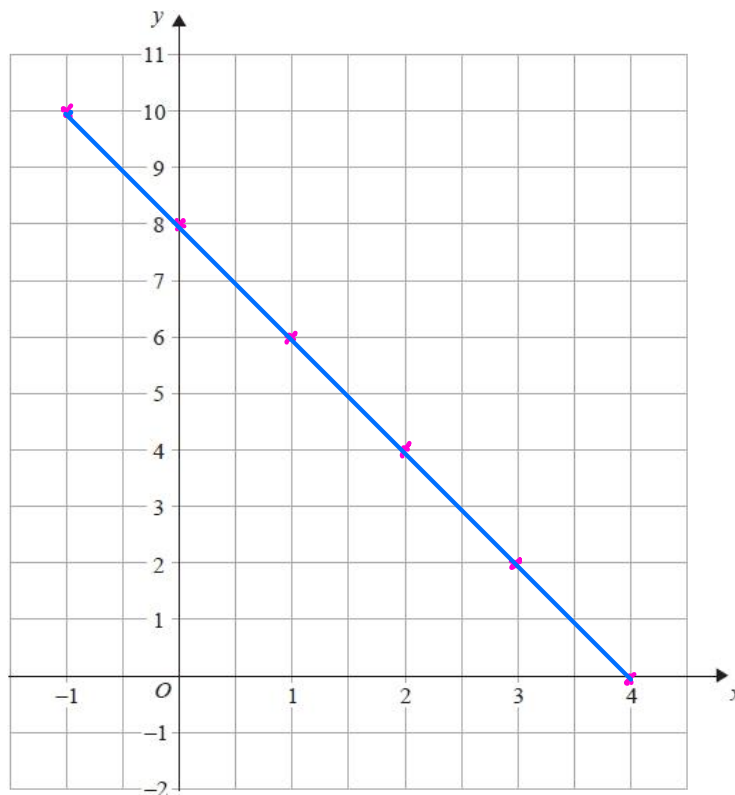
(a) Complete the table of values for $y = 8 - 2x$

$$\begin{aligned} &8 - 2(-1) \\ = &8 + 2 \\ = &10 \end{aligned}$$

x	-1	0	1	2	3	4
y	10	8	6	4	2	0

(2)

(b) On the grid, draw the graph of $y = 8 - 2x$ for values of x from -1 to 4



(2)

(Total for question = 4 marks)

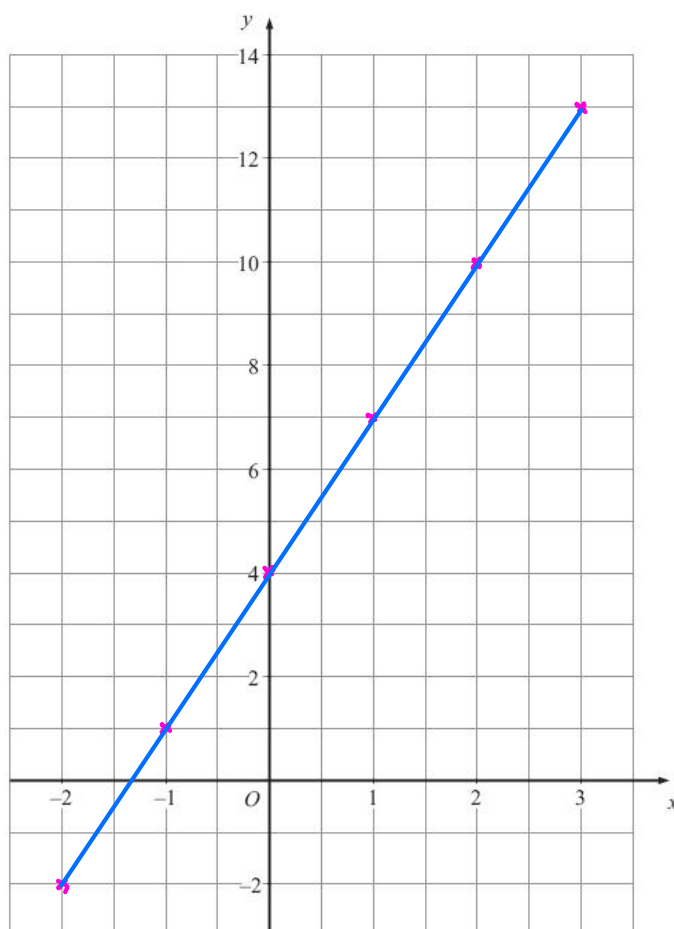
Q3. $3(-2) + 4 = -6 + 4 = -2$

(a) Complete the table of values for $y = 3x + 4$

x	-2	-1	0	1	2	3
y	-2	1	4	7	10	13

(2)

(b) On the grid, draw the graph of $y = 3x + 4$



(2)

(Total for Question is 4 marks)

Q4.

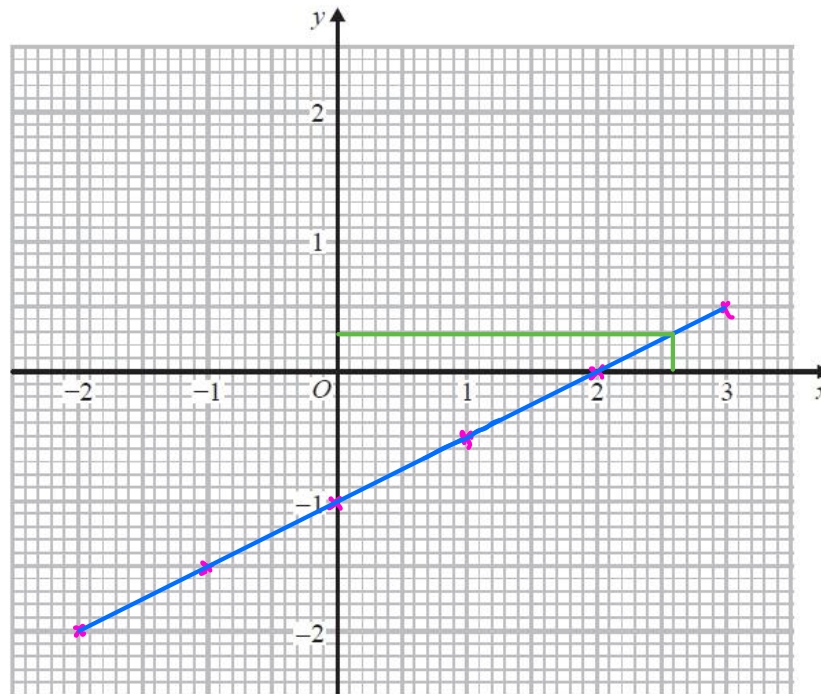
(a) Complete the table of values for $y = \frac{1}{2}x - 1$

$$\frac{1}{2}(-1) - 1 = -\frac{1}{2} - 1 = -1\frac{1}{2} \qquad \frac{1}{2}(1) - 1 = \frac{1}{2} - 1 = -\frac{1}{2}$$

x	-2	-1	0	1	2	3
y	-2	$-1\frac{1}{2}$	-1	$-\frac{1}{2}$	0	$\frac{1}{2}$

(2)

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



(2)

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

x = 2.6

(1)

(Total for question = 5 marks)

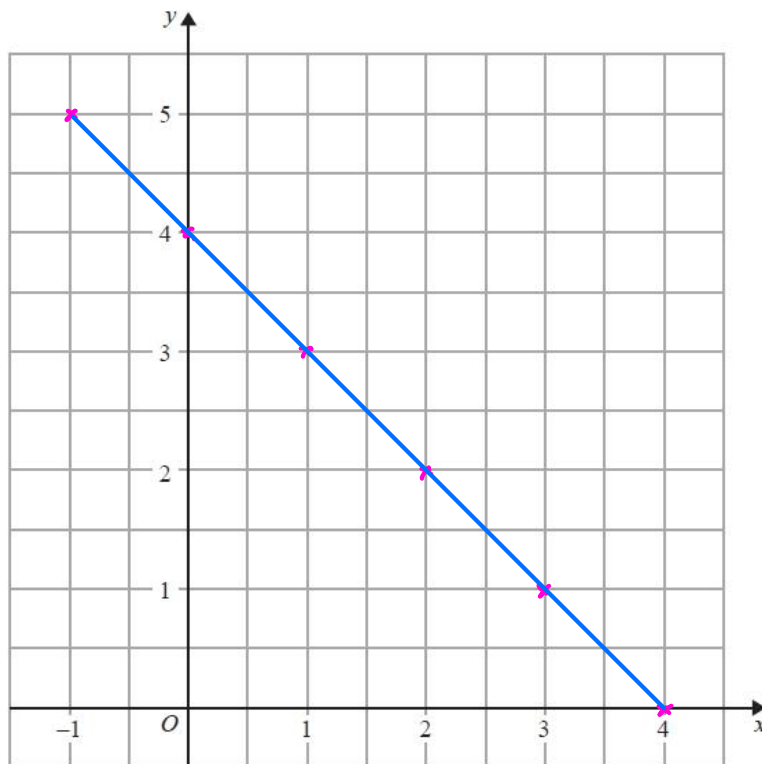
Q5.

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

x	-1	0	1	2	3	4
y	5	4	3	2	1	0

(2)

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



(2)

(Total for question = 4 marks)