# A054 Linear and quadratic graphs

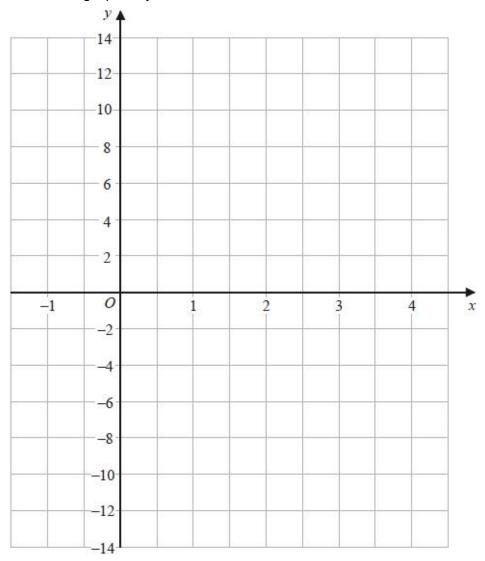
Q1.

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

X	-1	0	1	2	3	4
у			-2			10

(2)

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



(2)

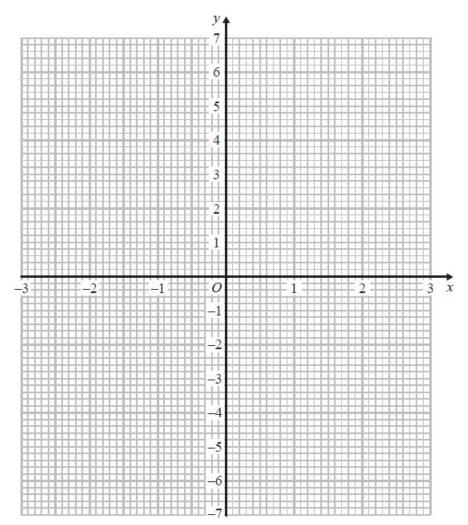
(a) Complete the table of values for  $y = x^2 - x - 6$ 

x	-3	-2	-1	0	1	2	3
у	6			- 6			

(2)

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

(2)

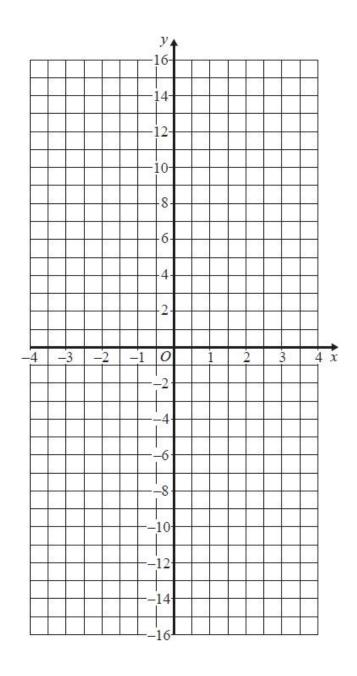


(c) Use your graph to find estimates of the solutions to the equation  $x^2 - x - 6 = -2$ 

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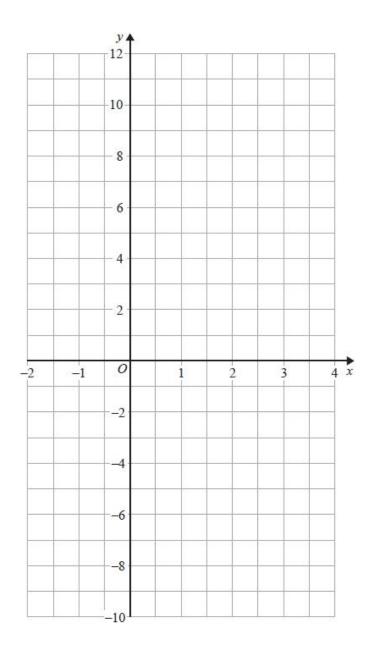
(2)

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



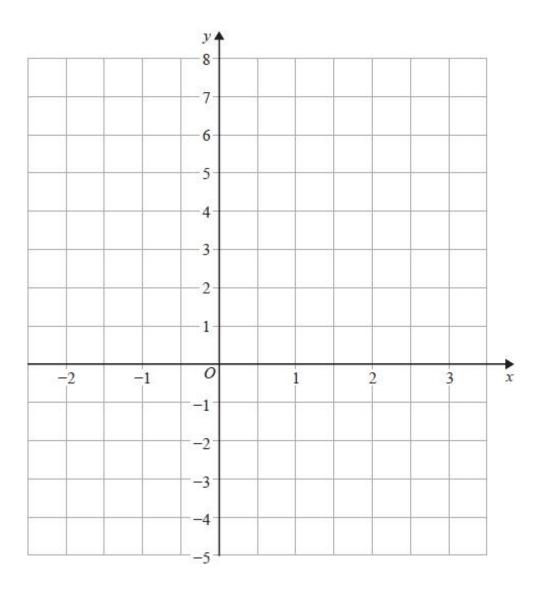
## Q4.

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



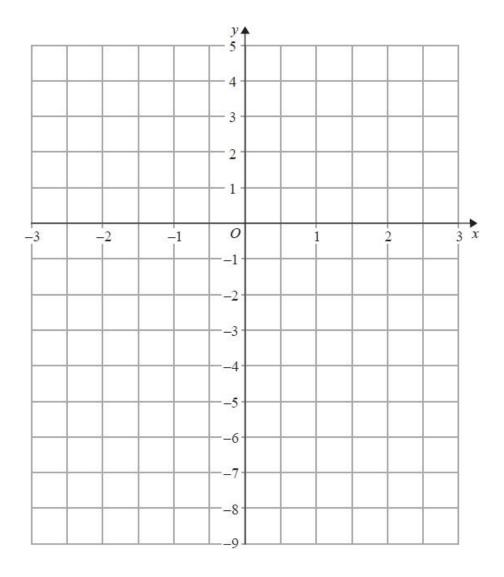
## Q5.

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

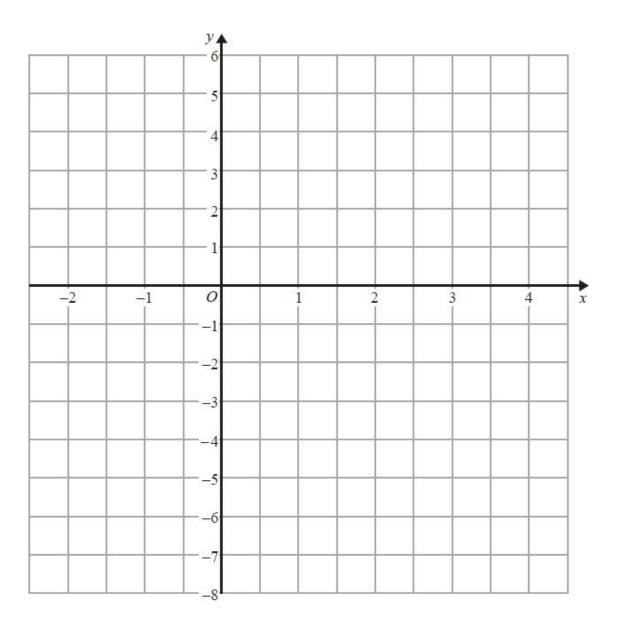


## Q6.

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



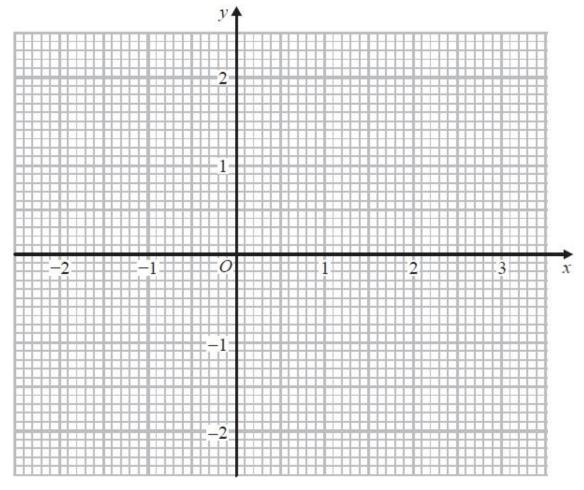
On the grid below, draw the graph of y = 2x - 3 for values of x from -2 to 4



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

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

(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

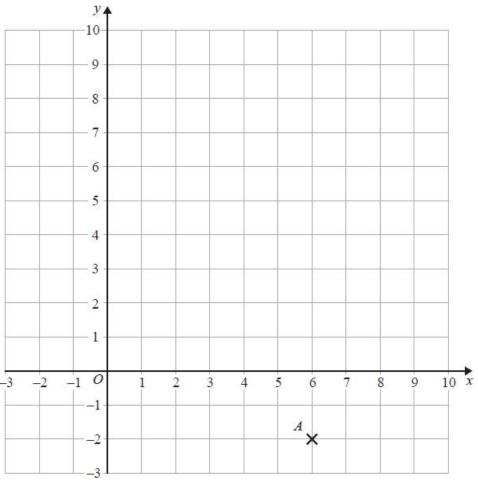
*x* = .....(1)

(Total for question = 5 marks)

(2)

(2)

Q9.



	-31		
(a)	Write down the coordinates of the point A.		
		( ,	)
			(1)
(b)	(i) Plot the point with coordinates (2, 9).		
	Label this point B.		
			(1)

(ii) Does point *B* lie on the straight line with equation y = 4x + 1? You must show how you get your answer.


(1)

(c) On the grid, draw the line with equation x = -2

(1)

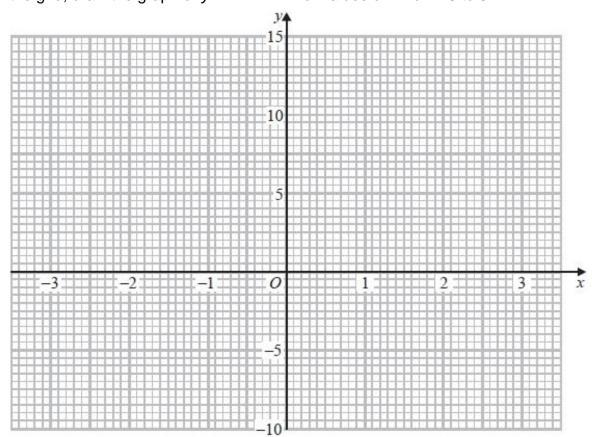
## Q10.

(a) Complete this table of values for  $y = x^2 + x - 4$ 

x	-3	-2	-1	0	1	2	3
у		-2	-4		-2		

(2)

(b) On the grid, draw the graph of  $y = x^2 + x - 4$  for values of x from -3 to 3



(2)

(c) Use the graph to estimate a solution to  $x^2 + x - 4 = 0$ 

.....

(1)