



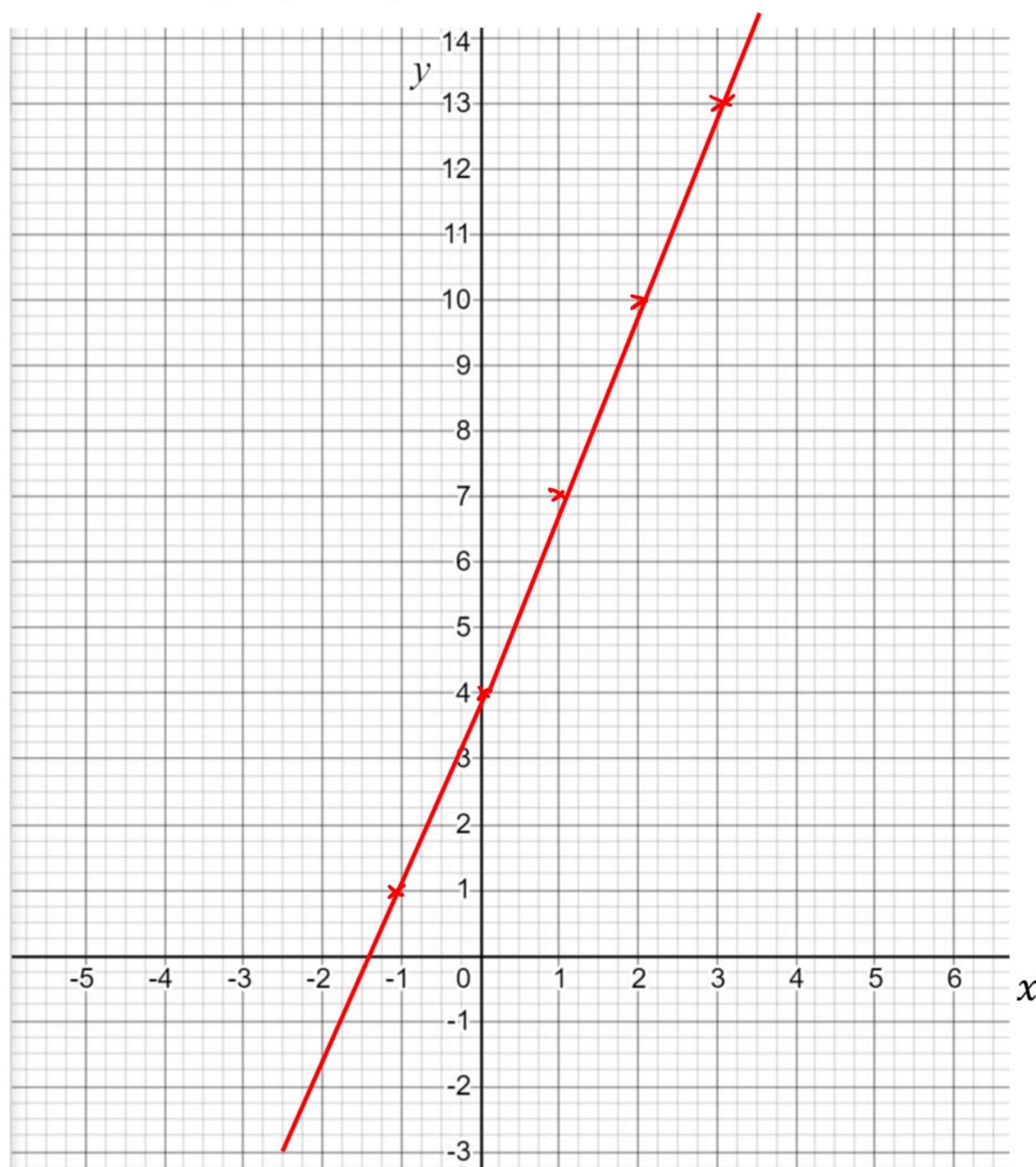
## Linear Graphs Exam Practice

Q1.a) Complete the table of values for  $y = 3x + 4$ :

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

Answer: \_\_\_\_\_  
(2 marks)

b) Draw the graph of  $y = 3x + 4$



Answer: \_\_\_\_\_  
(2 marks)

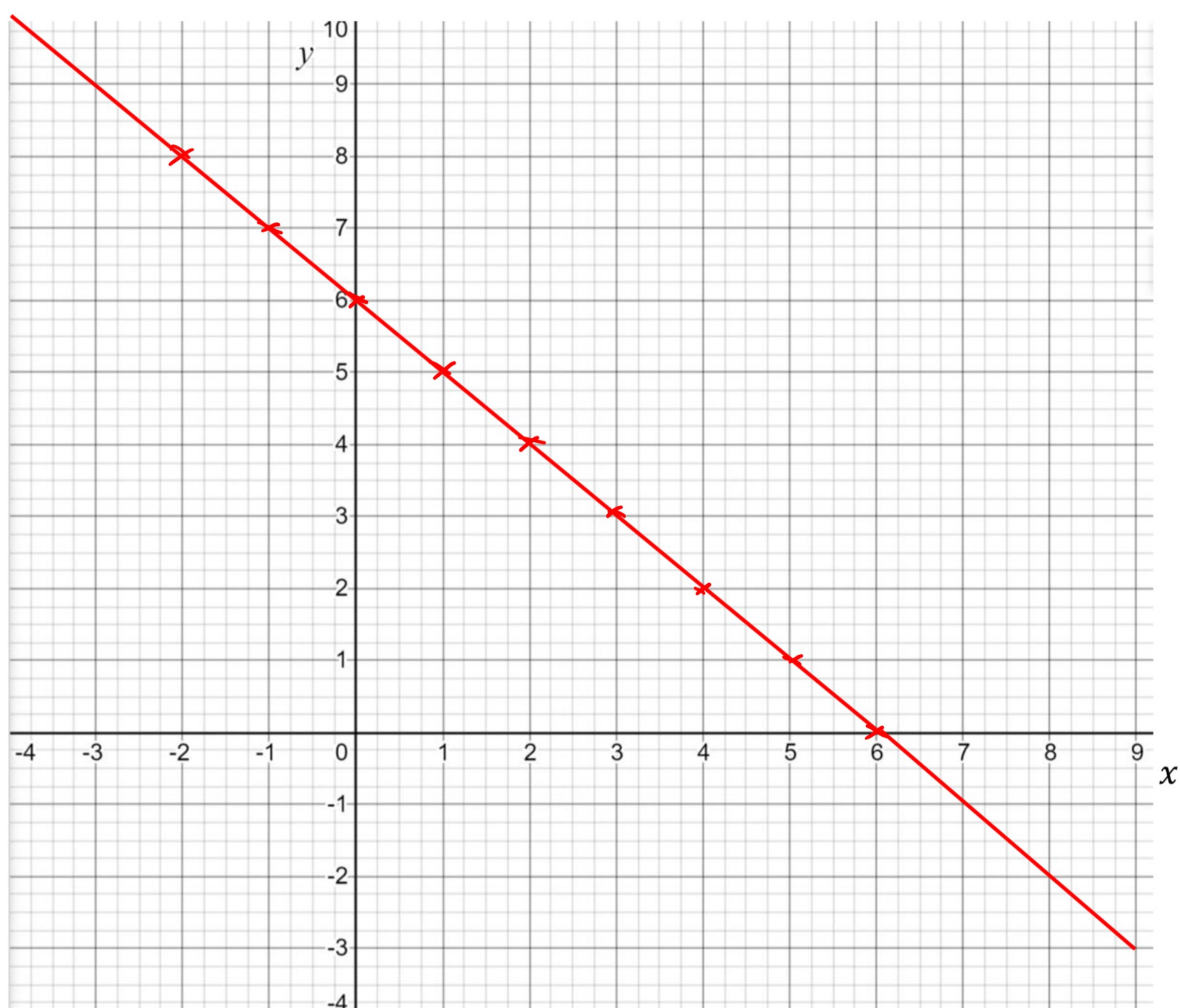


Q2. a) Complete the table of values for  $y = 6 - x$ :

$x$	-2	-1	0	1	2	3
$y$	8	7	6	5	4	3

Answer: \_\_\_\_\_  
(2 marks)

b) Draw the graph of  $y = 6 - x$



Answer: \_\_\_\_\_  
(2 marks)

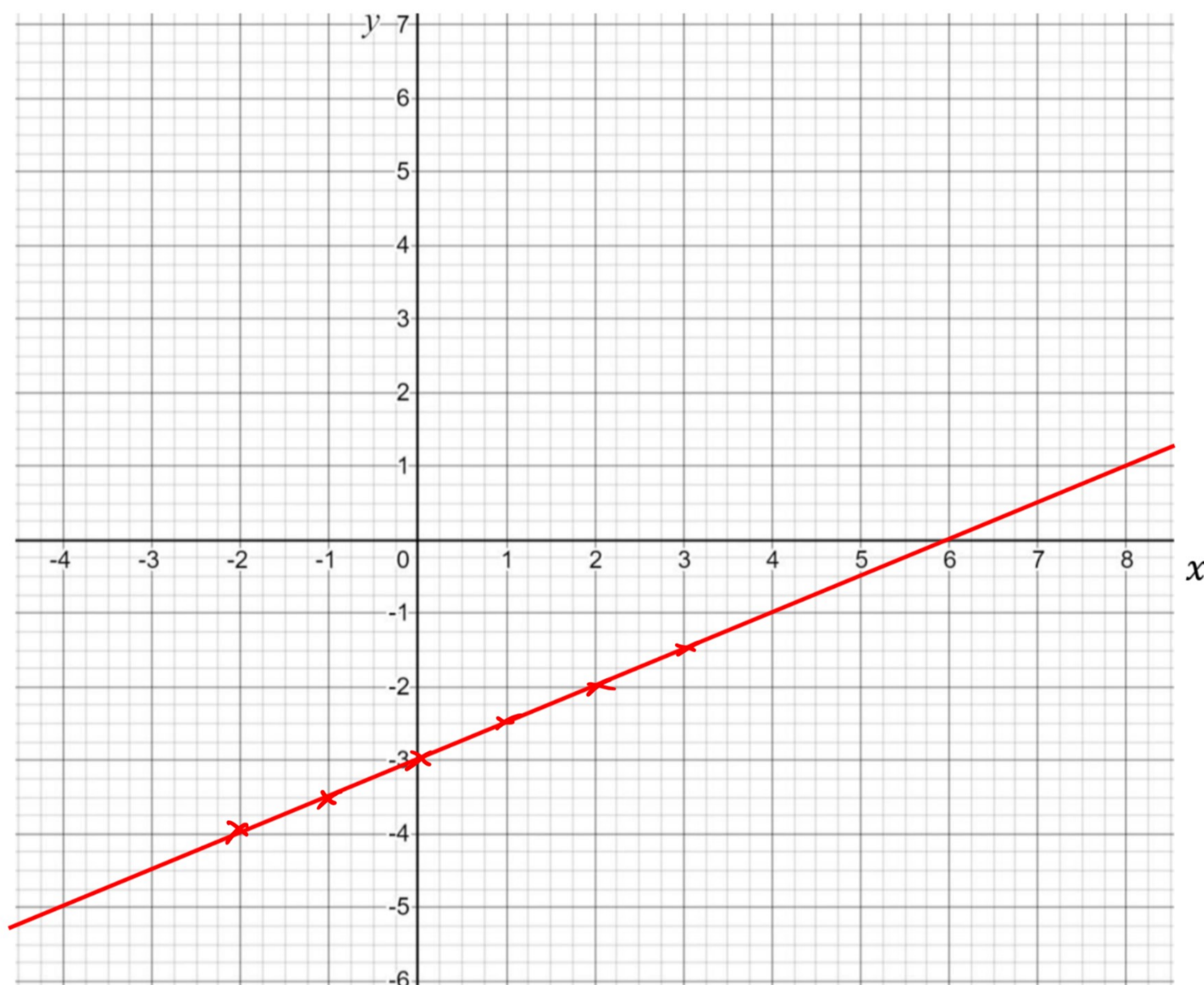


Q3. a) Complete the table of values for  $y = \frac{1}{2}x - 3$ :

$x$	-2	-1	0	1	2	3
$y$	-4	$-\frac{7}{2}$	-3	$-\frac{5}{2}$	-2	$-\frac{3}{2}$

Answer: \_\_\_\_\_  
(2 marks)

b) Draw the graph of  $y = \frac{1}{2}x - 3$



Answer: \_\_\_\_\_  
(2 marks)

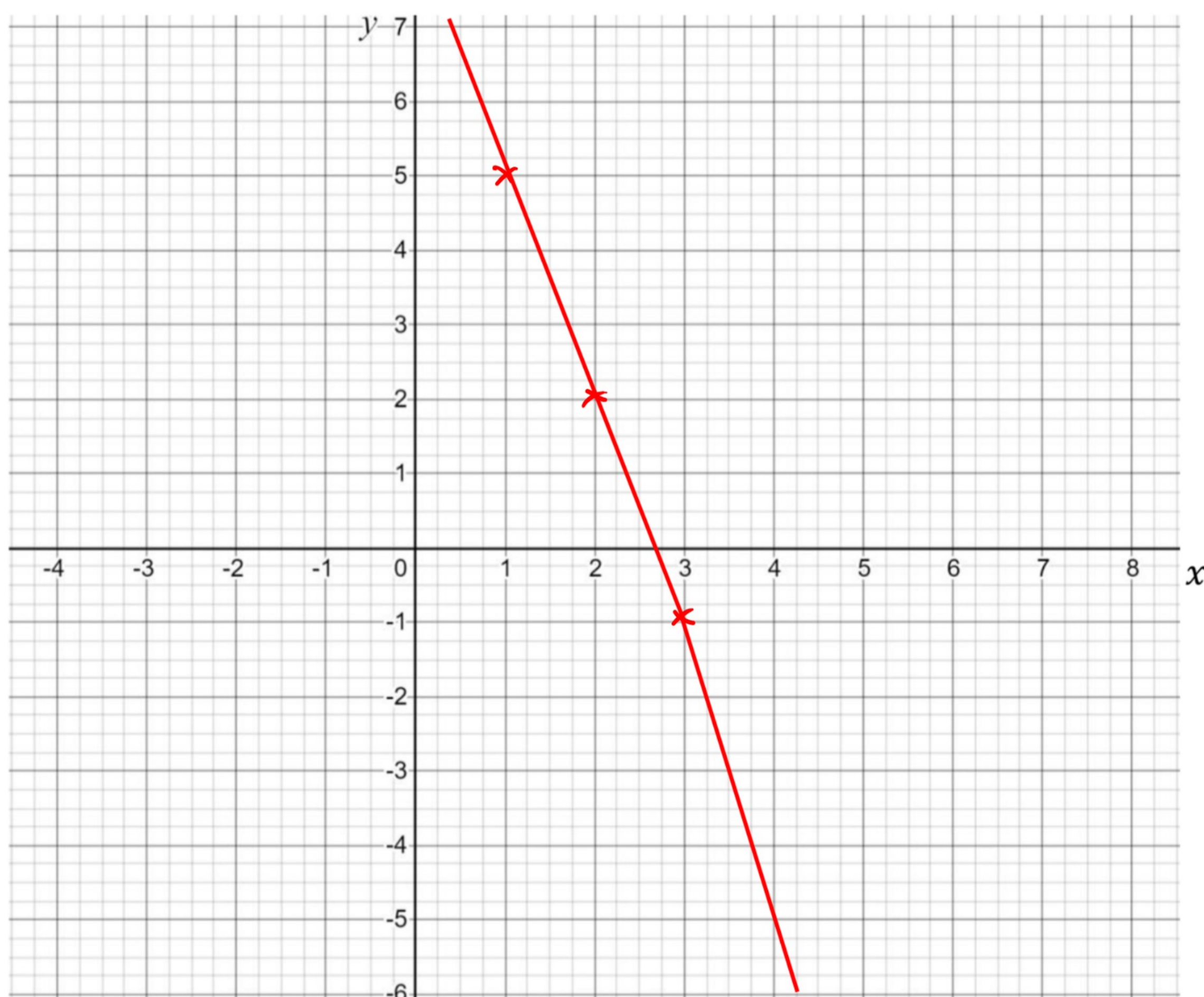


Q4. a) Complete the table of values for  $y = 8 - 3x$ :

$x$	-2	-1	0	1	2	3
$y$	14	11	8	5	2	-1

Answer: \_\_\_\_\_  
(2 marks)

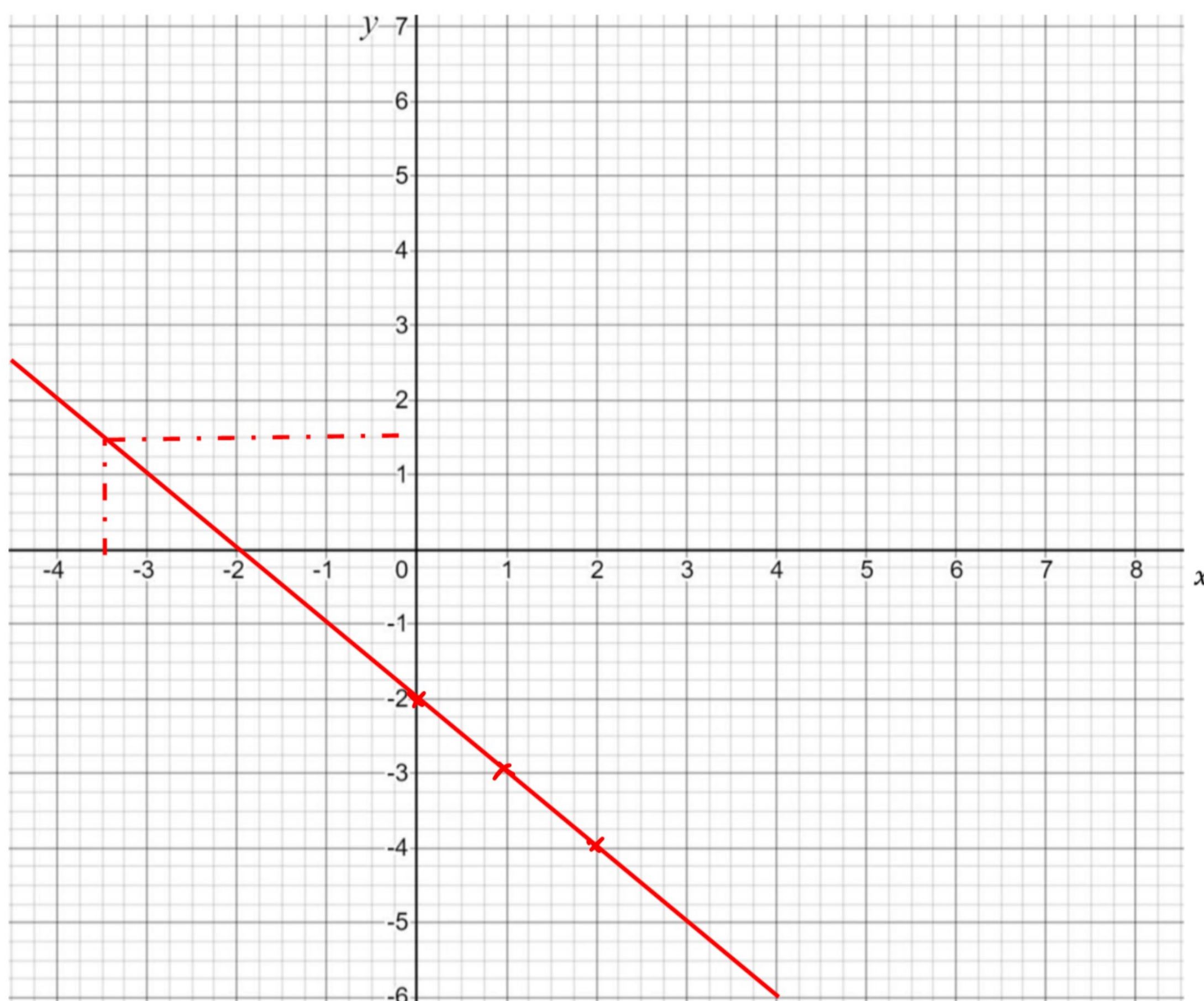
b) Draw the graph of  $y = 8 - 3x$



Answer: \_\_\_\_\_  
(2 marks)



Q5. a) Draw the graph of  $x + y = -2$  on the grid below:



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

Answer: \_\_\_\_\_  
(3 marks)

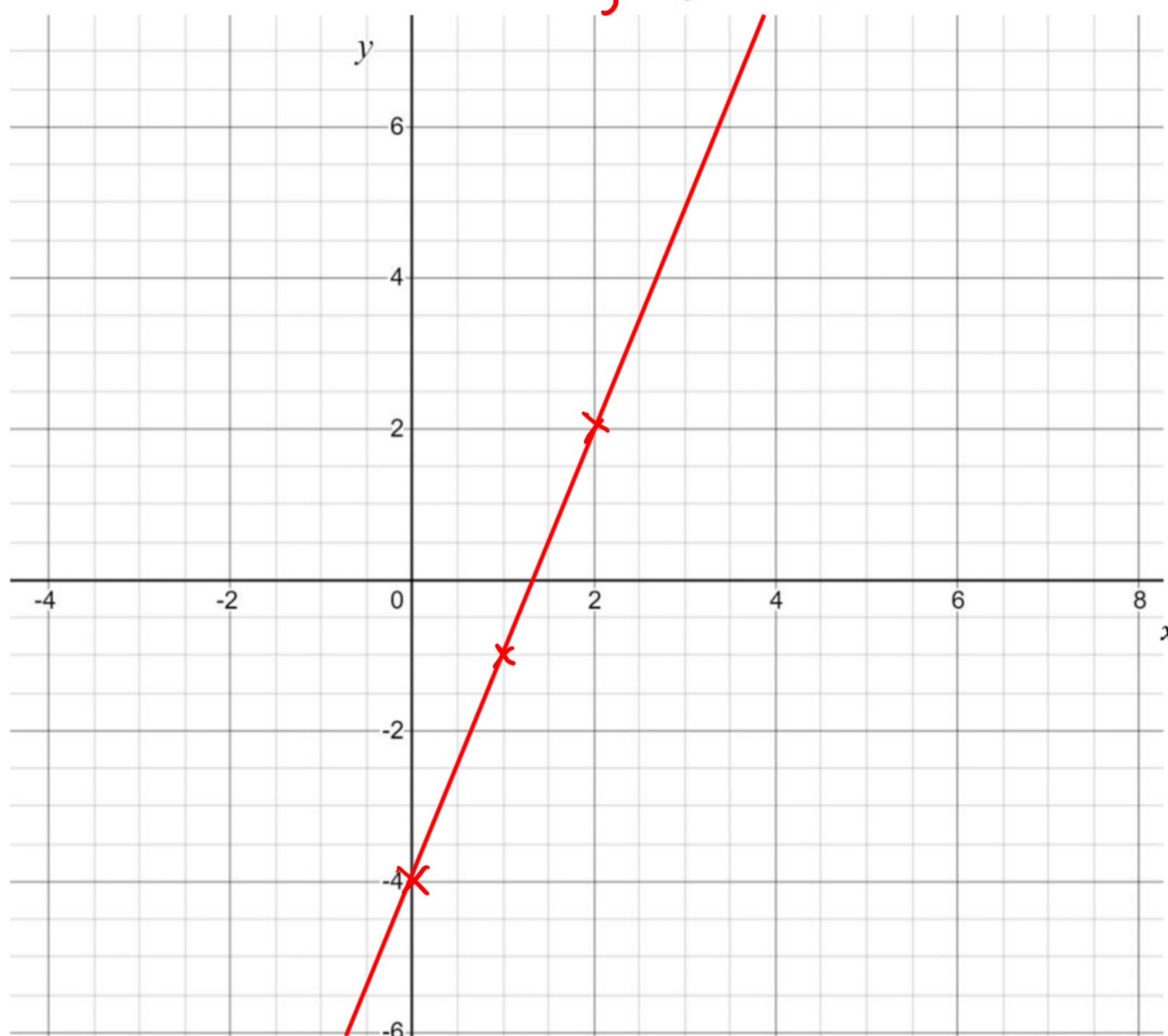
b) Draw the graph to estimate the value of  $y$  when  $x = -3.5$

Answer:            $y = 1.5$             
(2 marks)



Q6. Draw the graph of  $2y - 6x + 8 = 0$  on the grid below:

$$\Rightarrow 2y = 6x - 8$$
$$\Rightarrow y = 3x - 4$$



$$y = 3x - 4$$

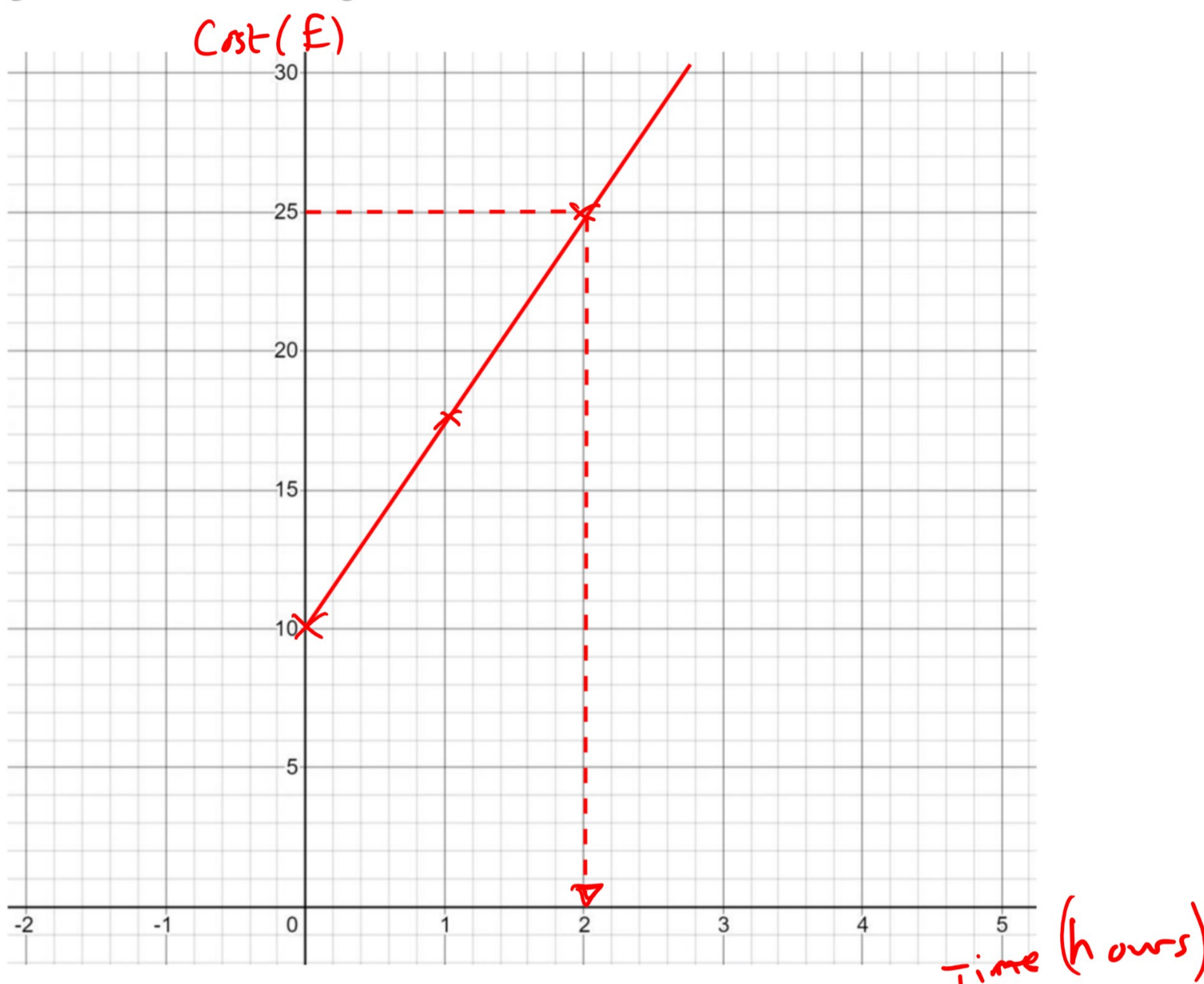
$x$	0	1	2
$y$	-4	-1	2

Answer: \_\_\_\_\_

(3 marks)



Q7.a) It costs £7.50 an hour to hire a pair of skis. There is also a deposit of £10. Draw a graph to show this information on the grid below, labelling both axes.



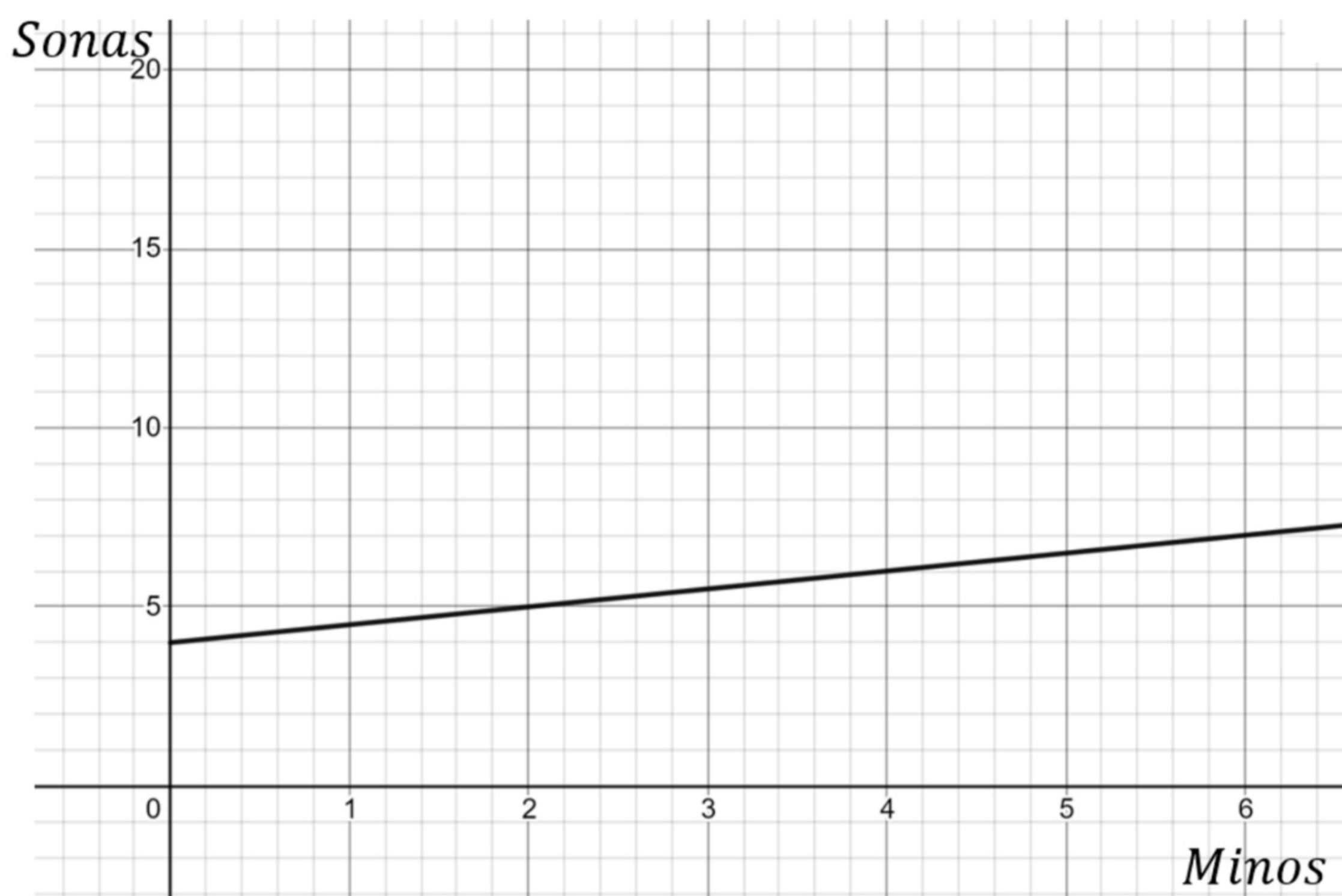
Answer: \_\_\_\_\_  
(2 marks)

b) Use your graph to work out how many hours Bob skied if he paid £25

Answer: 2 hours  
(2 marks)



Q8. Below is a currency conversion graph used at an exchange bureau to convert *Minos* into *Sonas*.



a) State the fixed charge for using the service.

4 Sonas

Answer: 4 Sonas  
(2 marks)

b) Work out how many Sonas are worth 402 Minos

From the graph, 2 Minos = 5 Sonas  
 $\Rightarrow 402 \text{ Minos} = 1005 \text{ Sonas} (201 \times 5)$

Answer: 1005 Sonas  
(3 marks)