

Name: \_\_\_\_\_

## GCSE (1 – 9)

# Linear Graphs

### Instructions

- Use **black** ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided  
– *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

### Information

- The marks for each Question are shown in brackets  
– *use this as a guide as to how much time to spend on each Question.*

### Advice

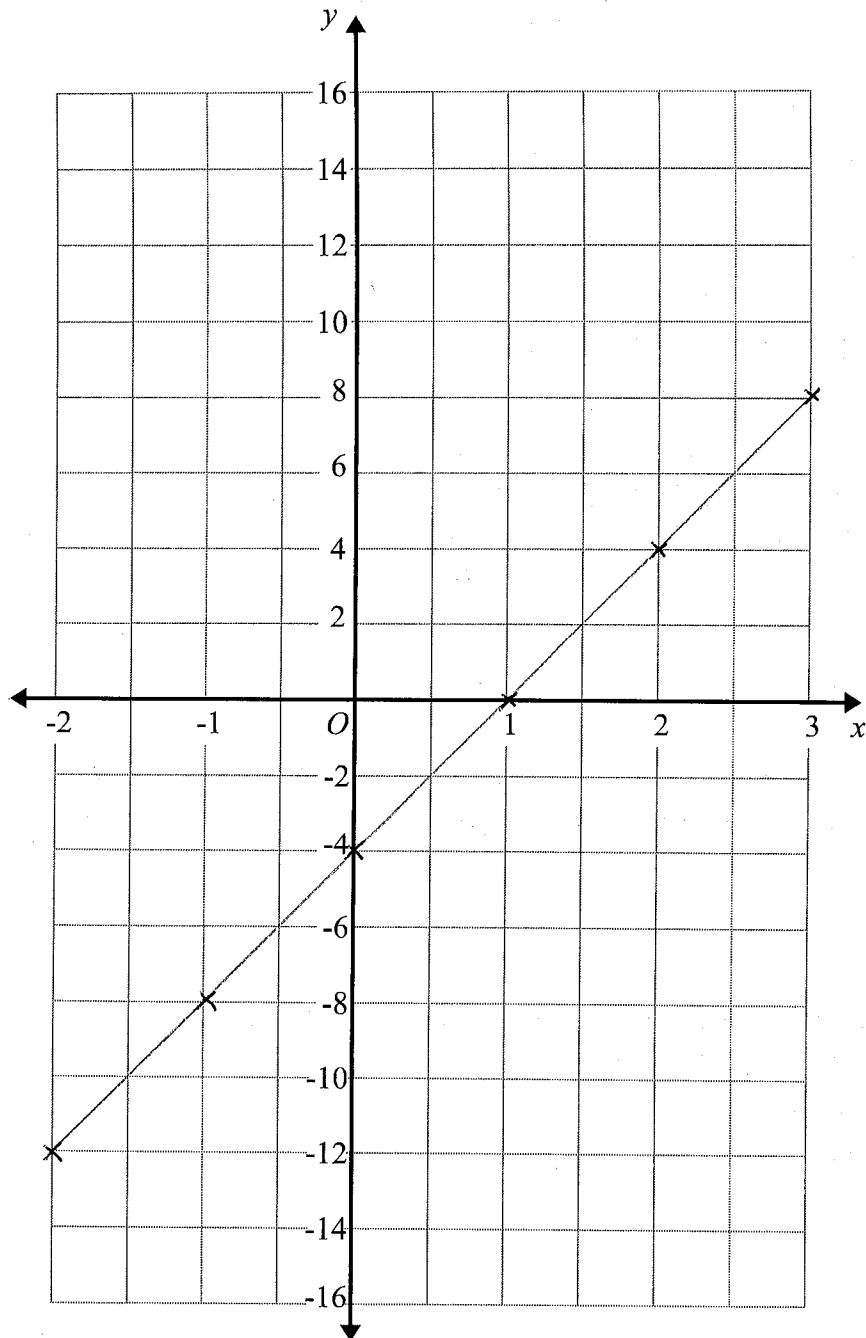
- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

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

$x$	-2	-1	0	1	2	3
$y$	-12	-8	-4	0	4	8

(2)

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

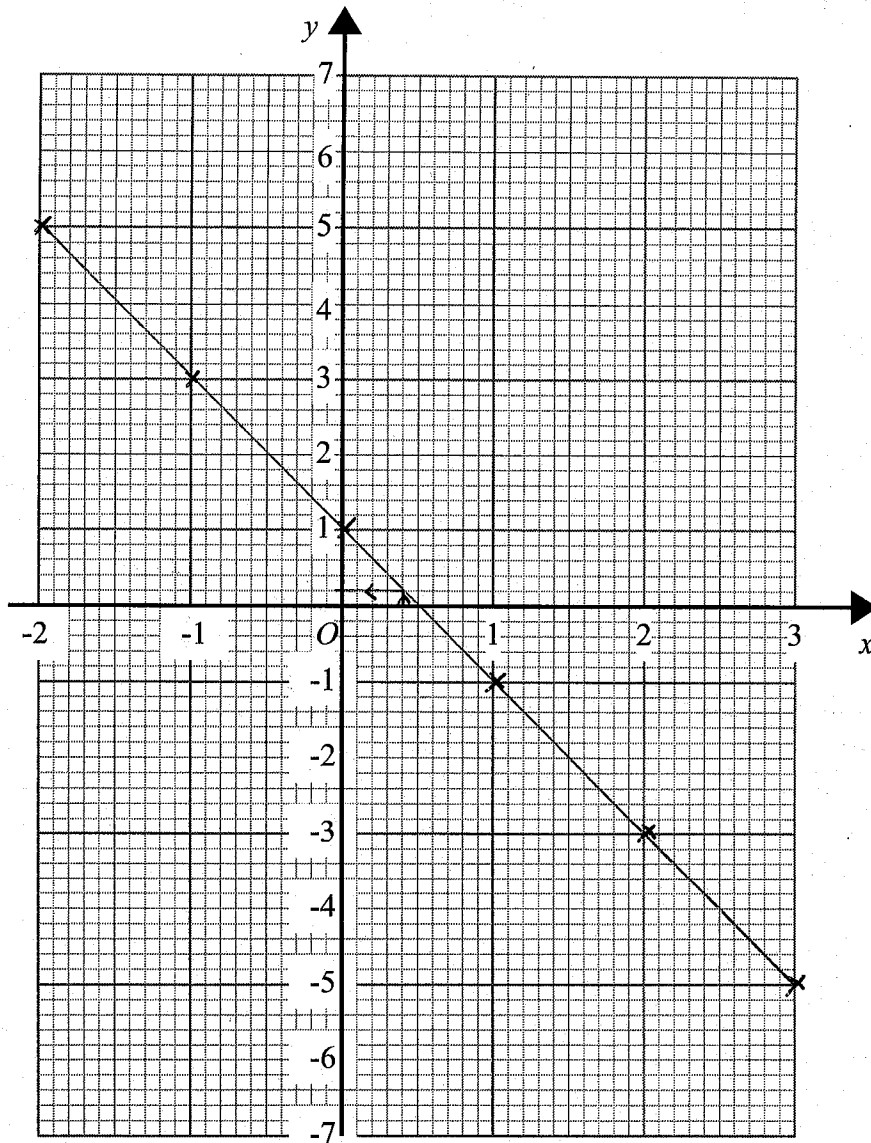


(2)

(Total for question 1 is 4 marks)

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

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



(2)

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

(2)

(c) Use your graph to find the value of  $y$  when  $x = 0.4$

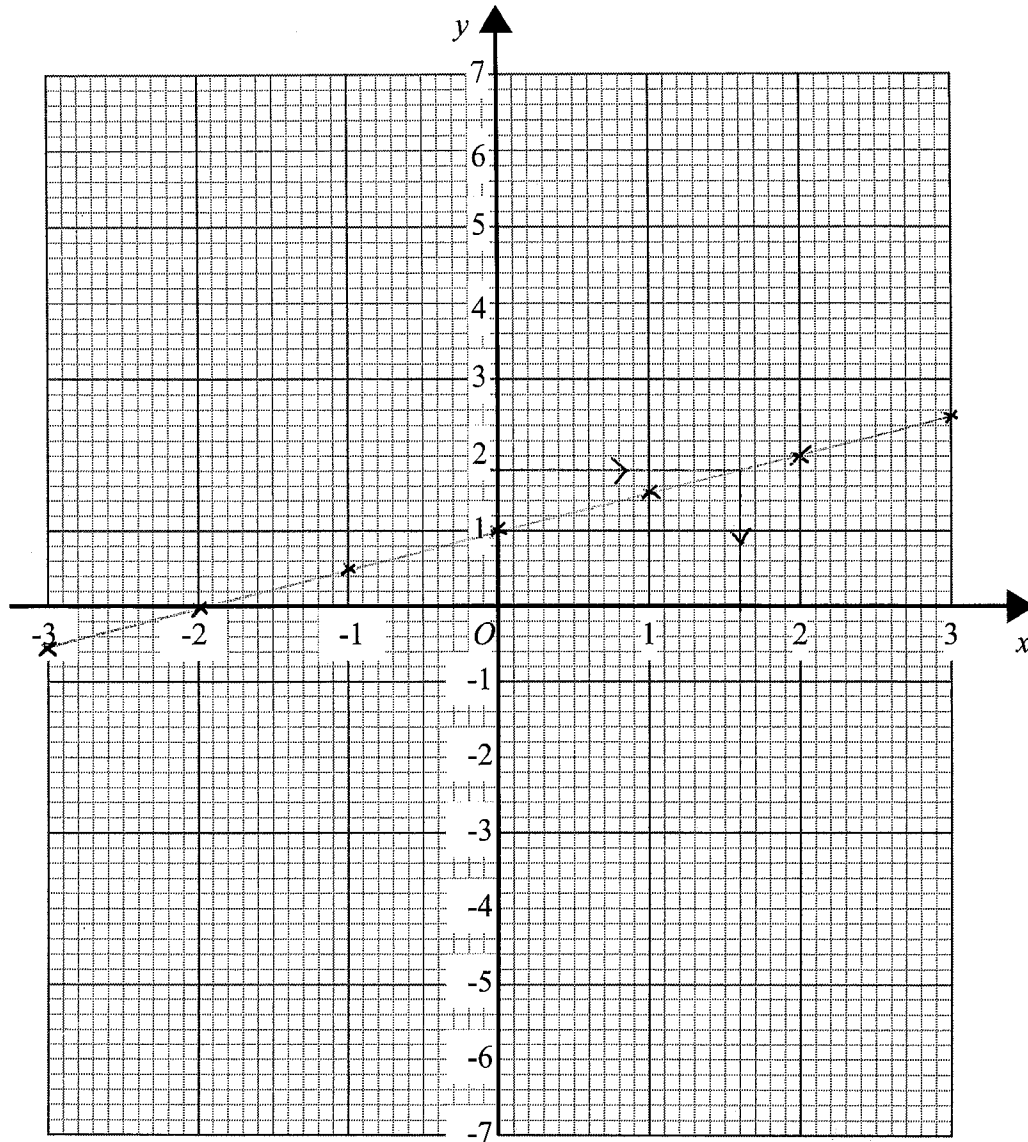
0.2

(1)

(Total for question 2 is 5 marks)

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

$x$	-3	-2	-1	0	1	2	3
$y$	-0.5	0	0.5	1	1.5	2	2.5



(3)

(b) Use your graph to find the value of  $x$  when  $y = 1.8$

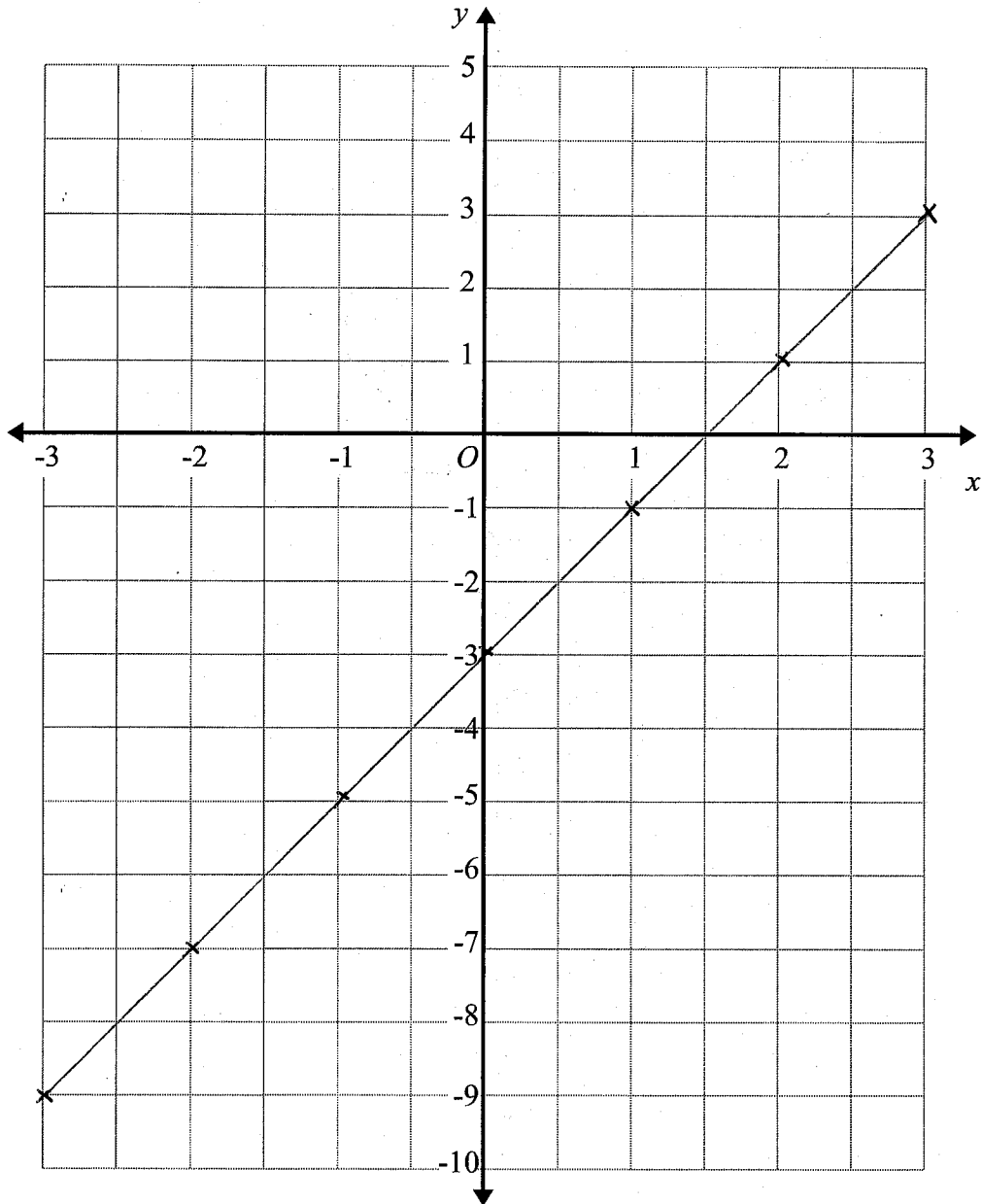
1.6

(1)

(Total for question 3 is 4 marks)

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

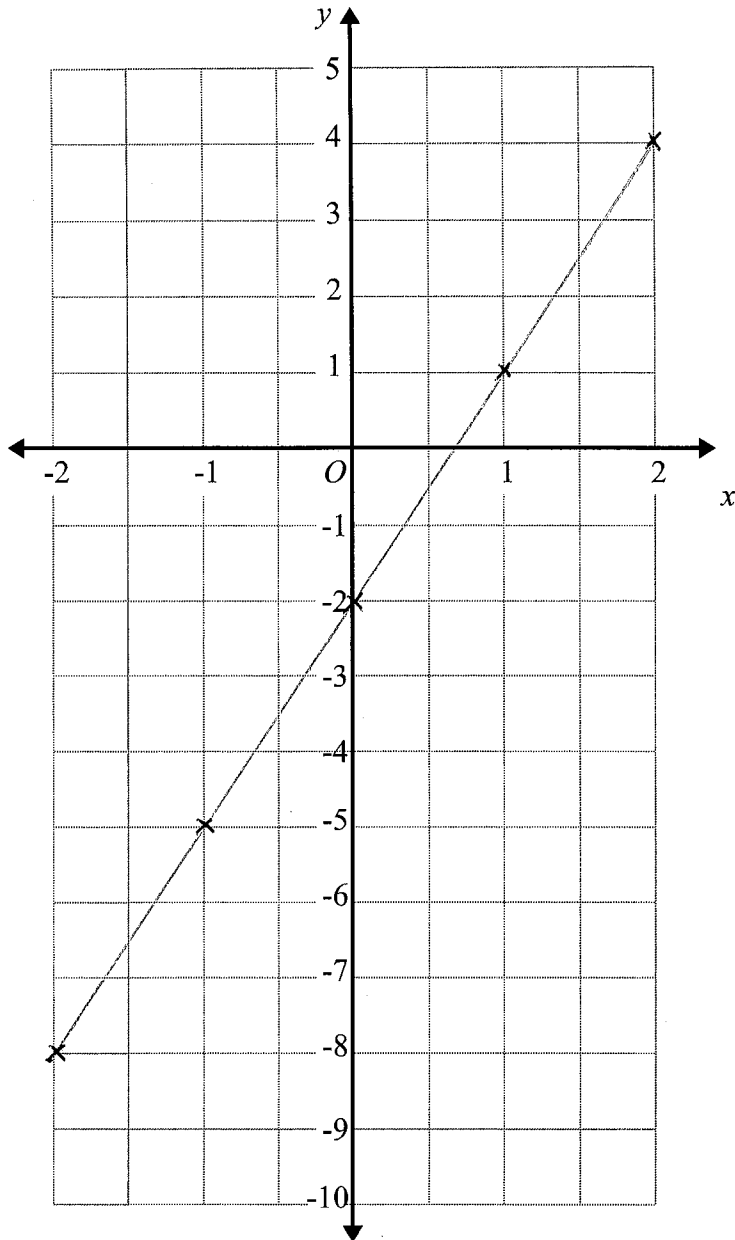
$x$	-3	-2	-1	0	1	2	3
$y$	-9	-7	-5	-3	-1	1	3



(Total for question 4 is 3 marks)

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

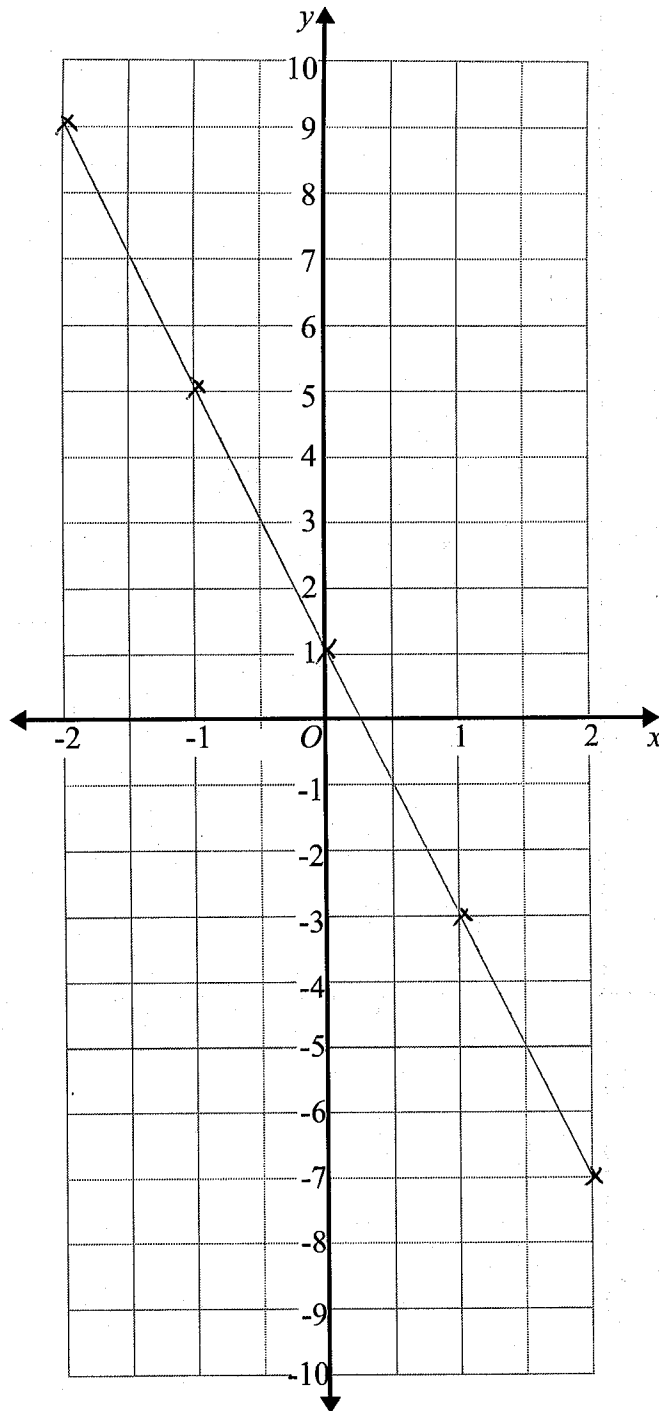
$x$	-2	-1	0	1	2
$y$	-8	-5	-2	1	4



(Total for question 5 is 3 marks)

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

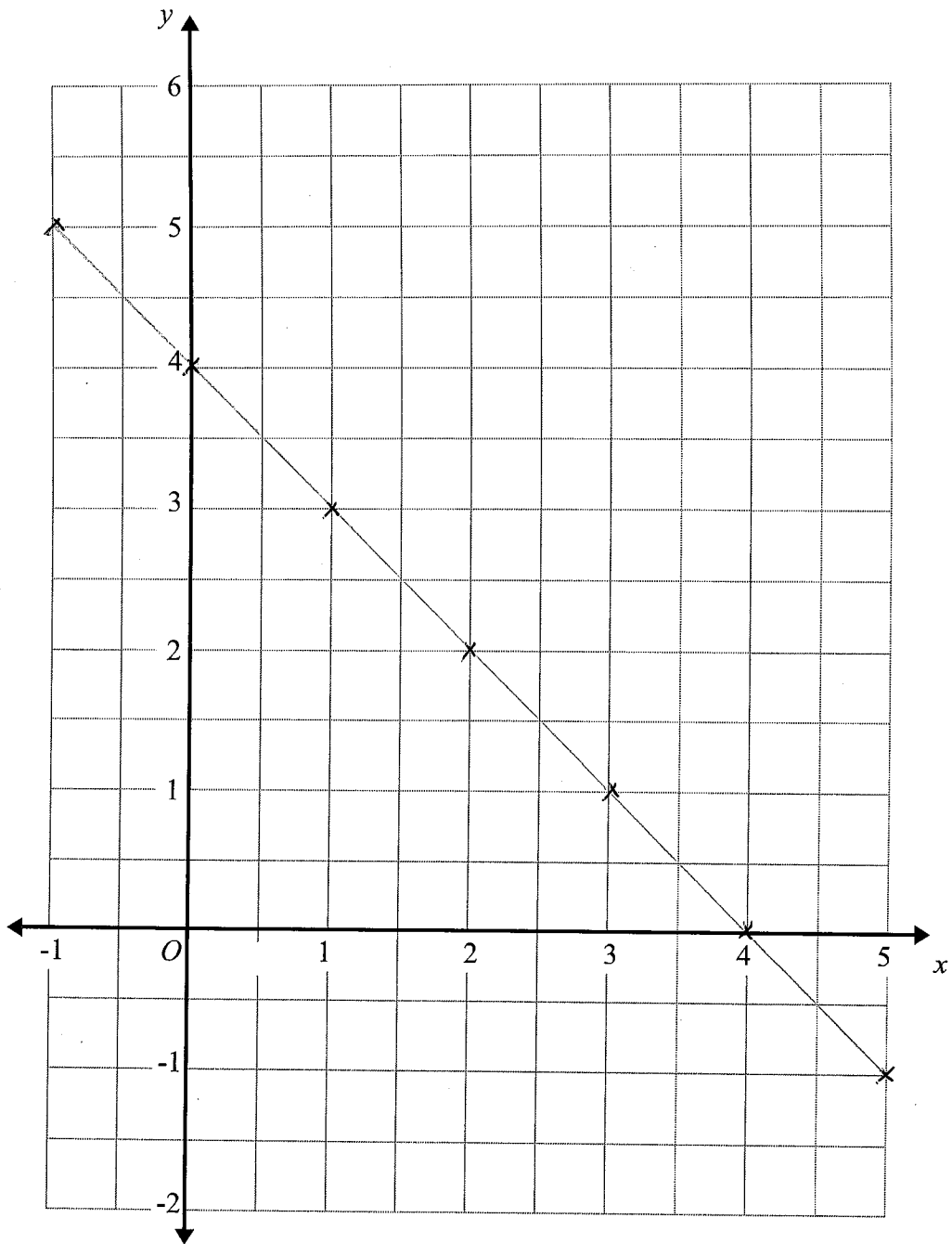
$x$	-2	-1	0	1	2
$y$	9	5	1	-3	-7



(Total for question 6 is 3 marks)

7 On the grid, draw the graph of  $x + y = 4$  for  $x$  values from -1 to 5

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



(Total for question 7 is 3 marks)