Name:

Exam Style Questions

Drawing Linear Graphs

Corbettmaths

Equipment needed: Ruler, Calculator, Pencil and Pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

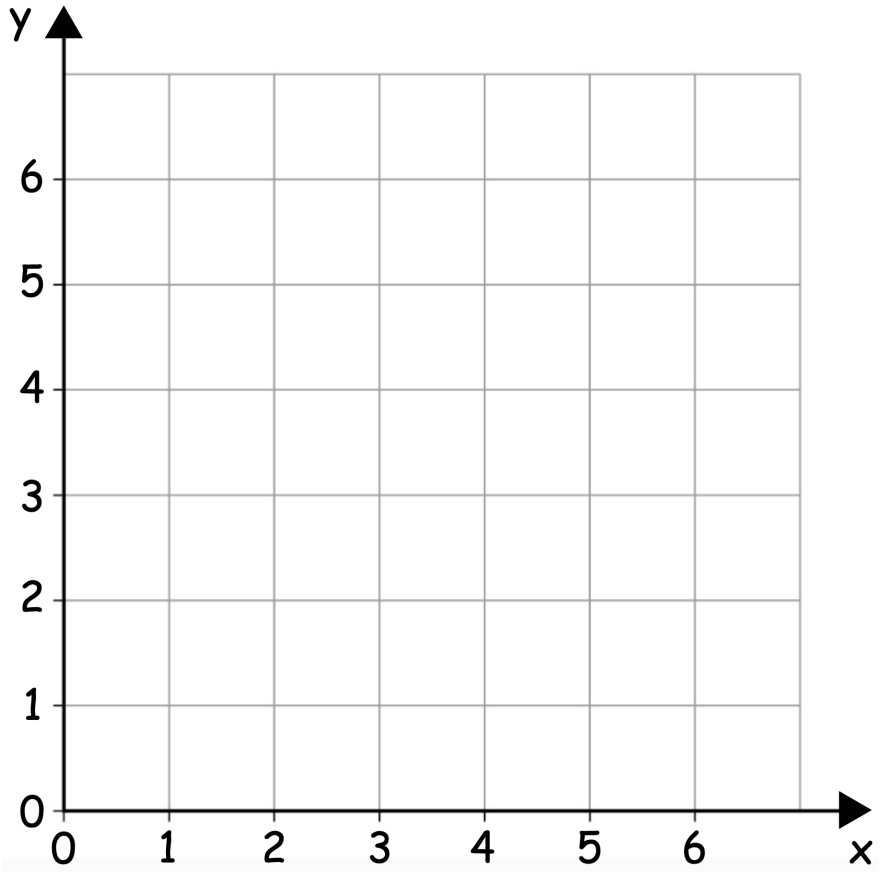
Video Tutorial

www.corbettmaths.com/contents

Videos 186, 187, 192, 193

Answers and Video Solutions

1.



(a) On the grid, draw the graph of x = 3

(1)

(b) On the grid, draw the graph of y = 1

(1)

(c) Write down the coordinates of where the two lines met.

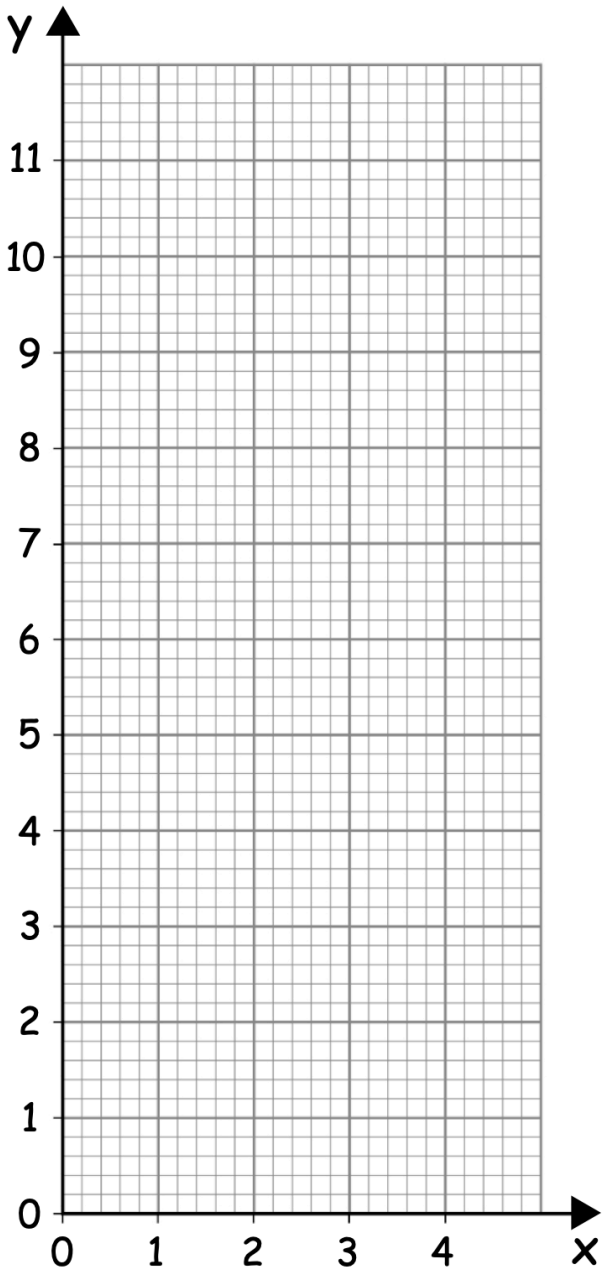
(..... , ...)

(1)

2. Here is a table of values for the equation $y = 2x + 3$

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

Draw the graph of $y = 2x + 3$ for values of x from 0 to 4



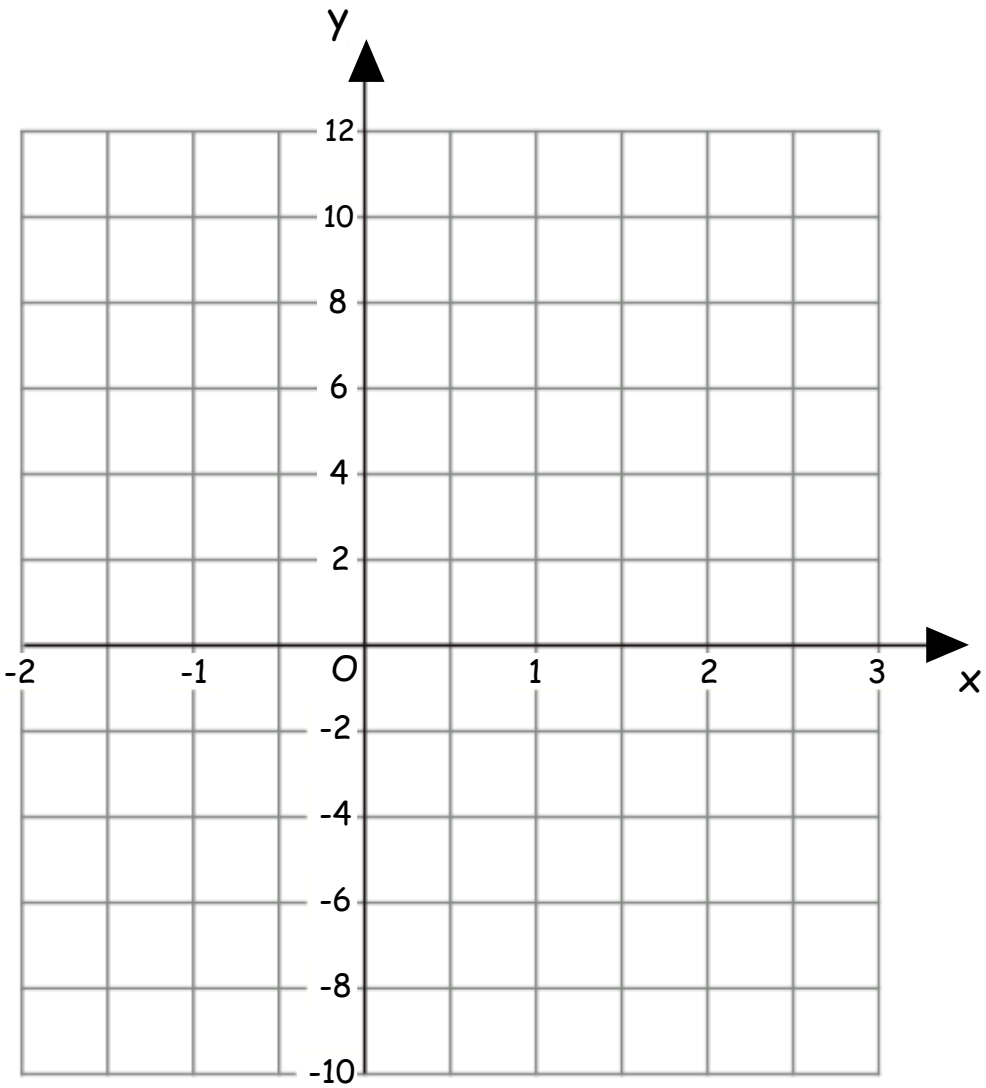
(2)

3. (a) Complete the table of values for $y = 2x + 4$.

x	-1	0	1	2	3
y		4			10

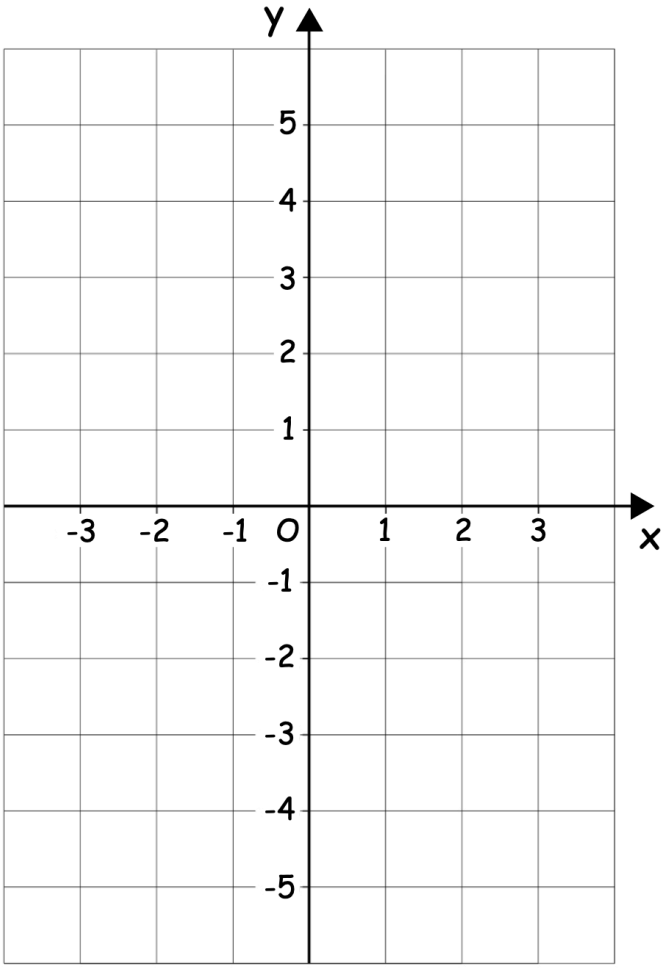
(2)

(b) On the grid, draw the graph of $y = 2x + 4$ for values of x from –1 to 3



(2)

4.



(a) Plot the point with coordinates (3, 5)
Label the point P.

(1)

(b) Does P lie on the line with equation $y = 2x - 1$?
Explain your answer.

.....

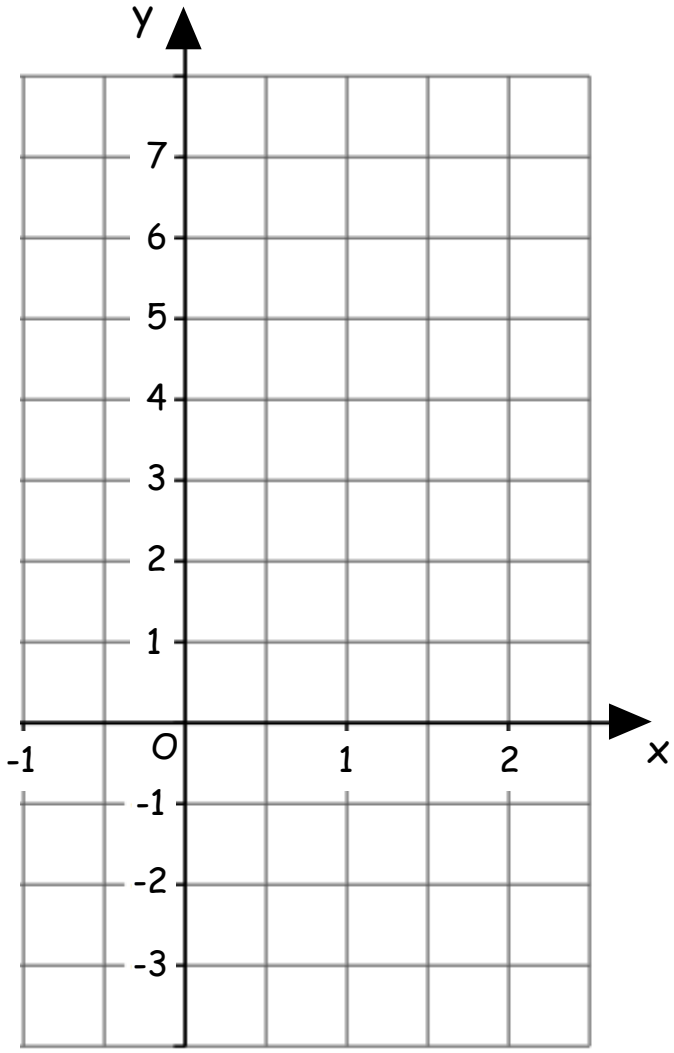
.....

(1)

(c) On the grid, draw the line with equation $y = -4$

(1)

5.



(a) On the grid, draw the graph y = –2

(1)

(b) Complete the table of values for y = 3x + 1

x	-1	0	1	2
y				

(2)

(c) On the grid, draw the graph of y = 3x + 1

(2)

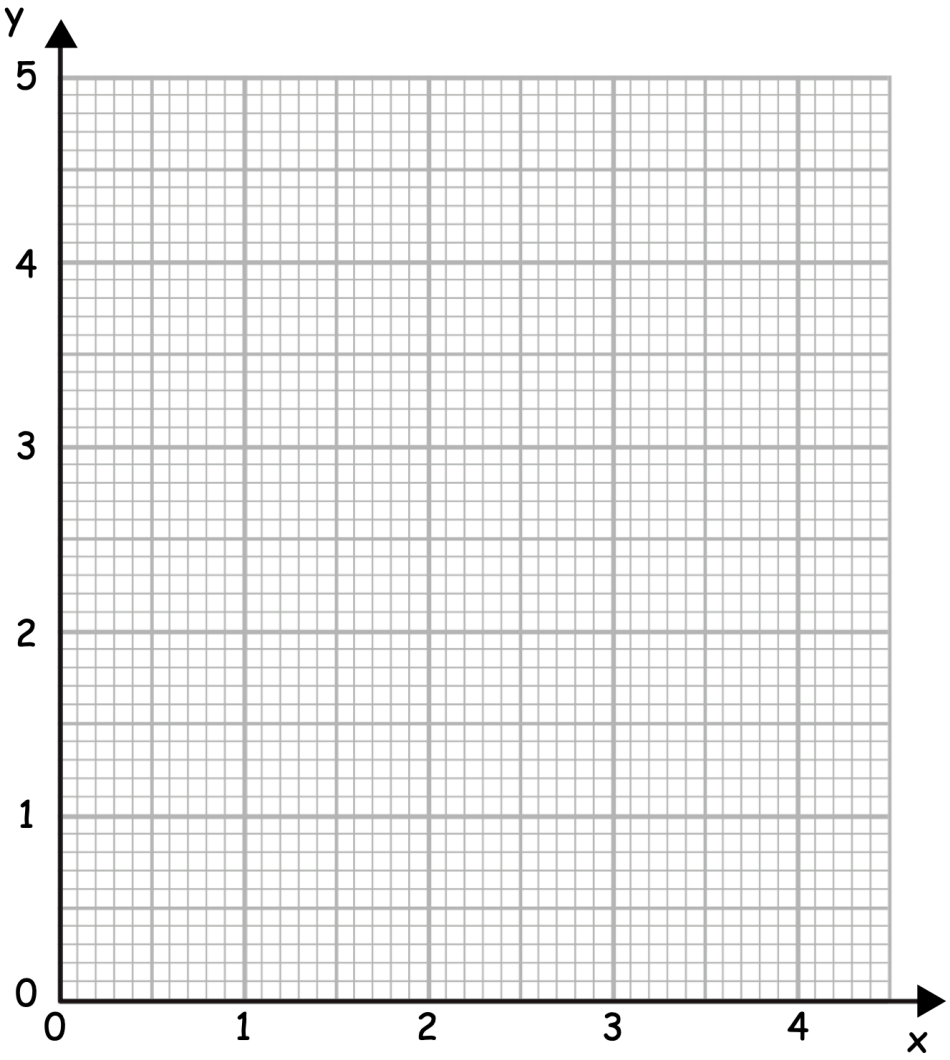
6.

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

x	0	1	2	3	4
y					

(2)

(b) On the grid, draw the graph of $y = \frac{1}{2}x + 1$



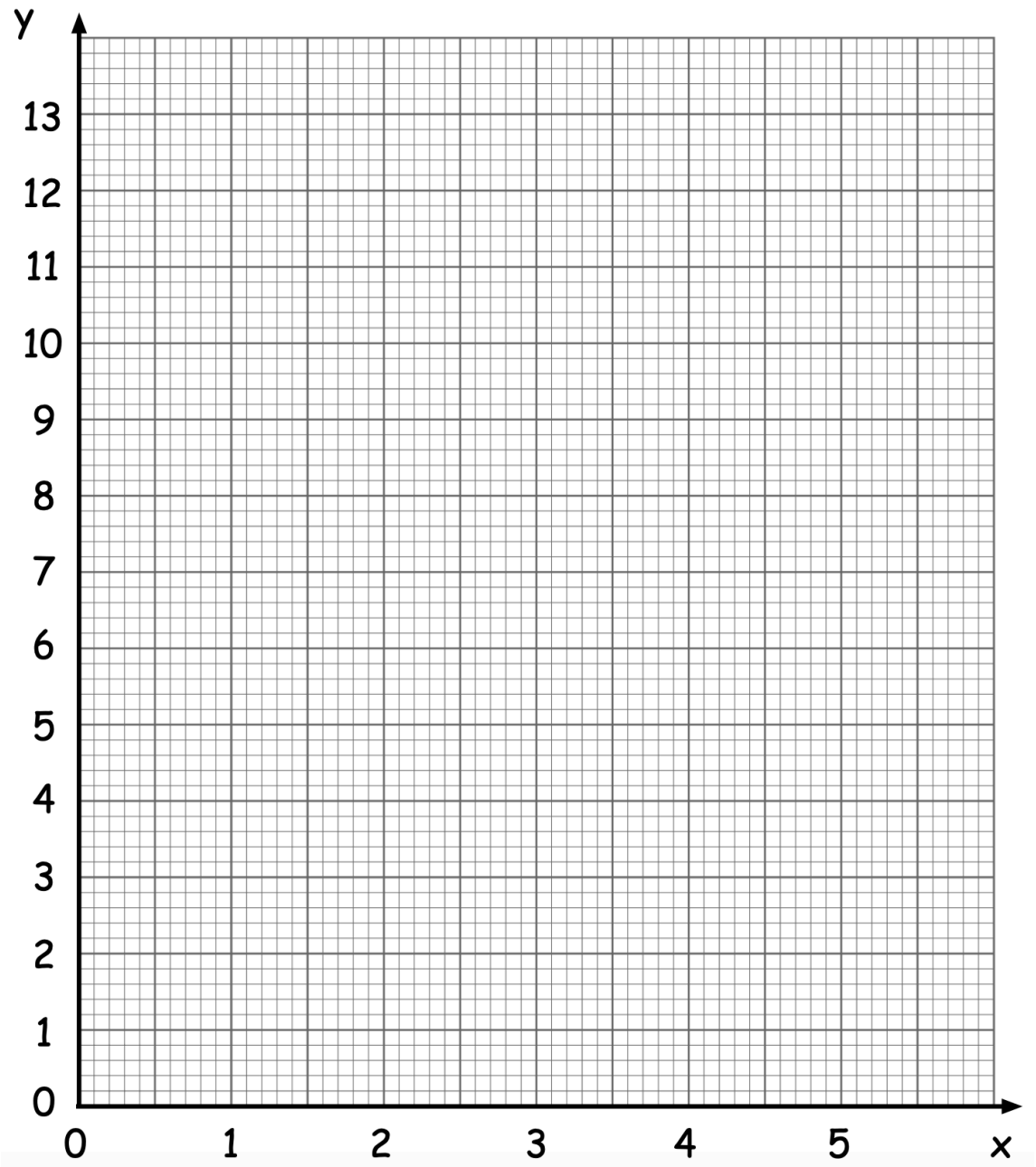
(2)

7. (a) Complete the table of values for $y = -2x + 11$

x	0	1	2	3	4	5
y			7	5		1

(2)

(b) On the grid, draw the graph of $y = -2x + 11$ for values of x from 0 to 5.



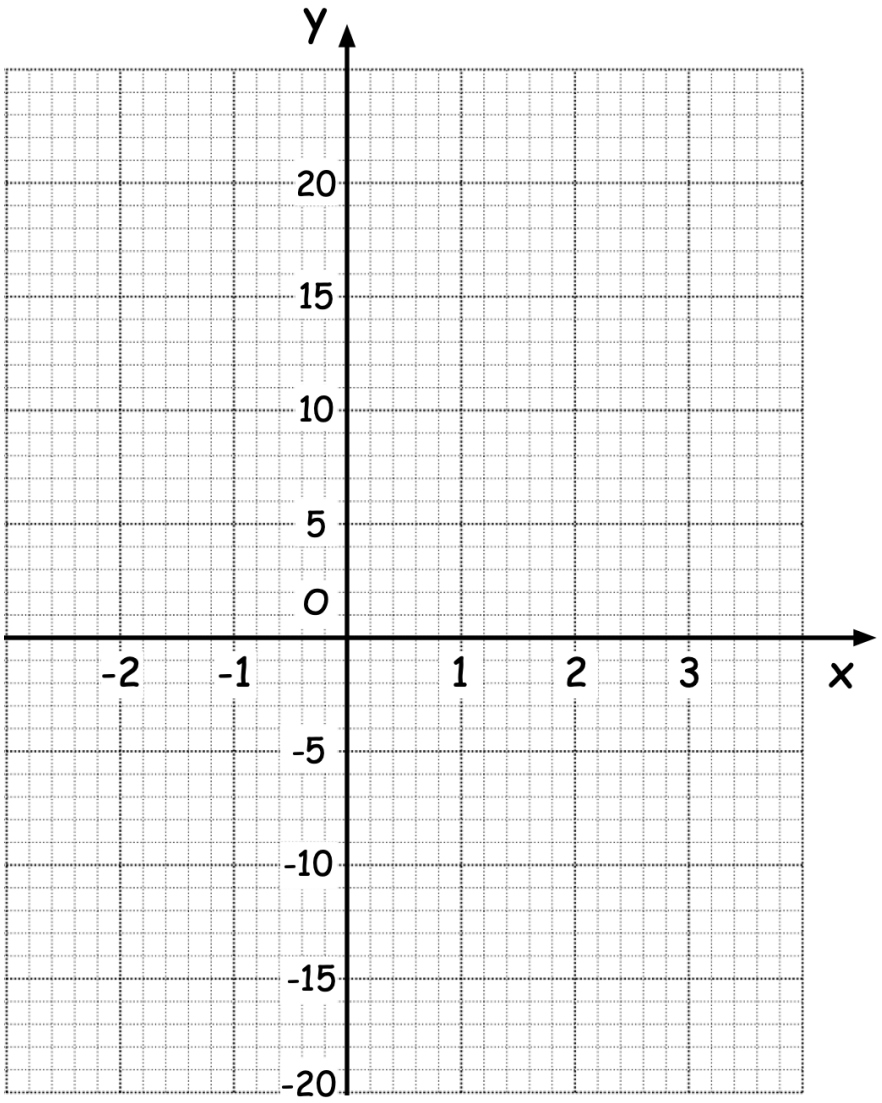
(2)

8. (a) Complete the table below for $y = 6x - 7$

x	-2	-1	0	1	2	3
y						

(2)

(b) On the grid below, draw the graph of $y = 6x - 7$



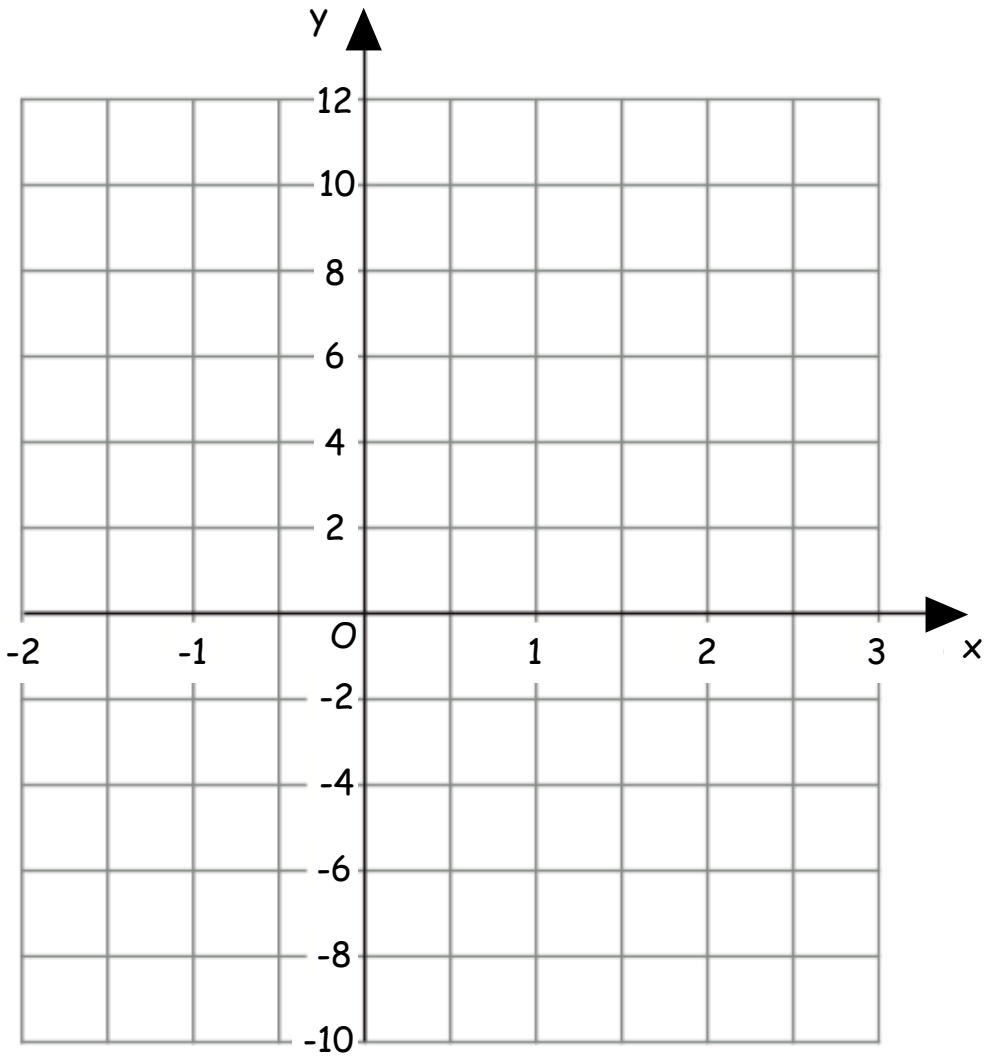
(2)

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

x	-1	0	1	2	3
y			2		-6

(2)

(b) On the grid, draw the graph of $y = 6 - 4x$ for values of x from –1 to 3.



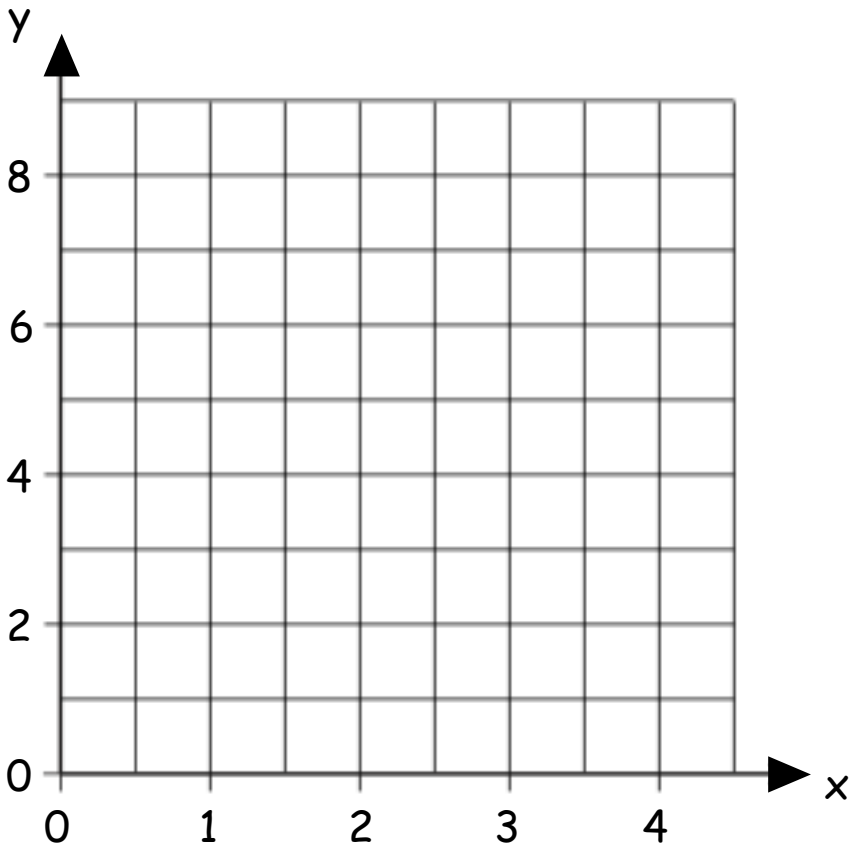
(2)

10. (a) Complete the table of values for the graph x + y = 6

x	0	1	2	3	4
y		5			

(2)

(b) On the grid, draw the graph of x + y = 6.



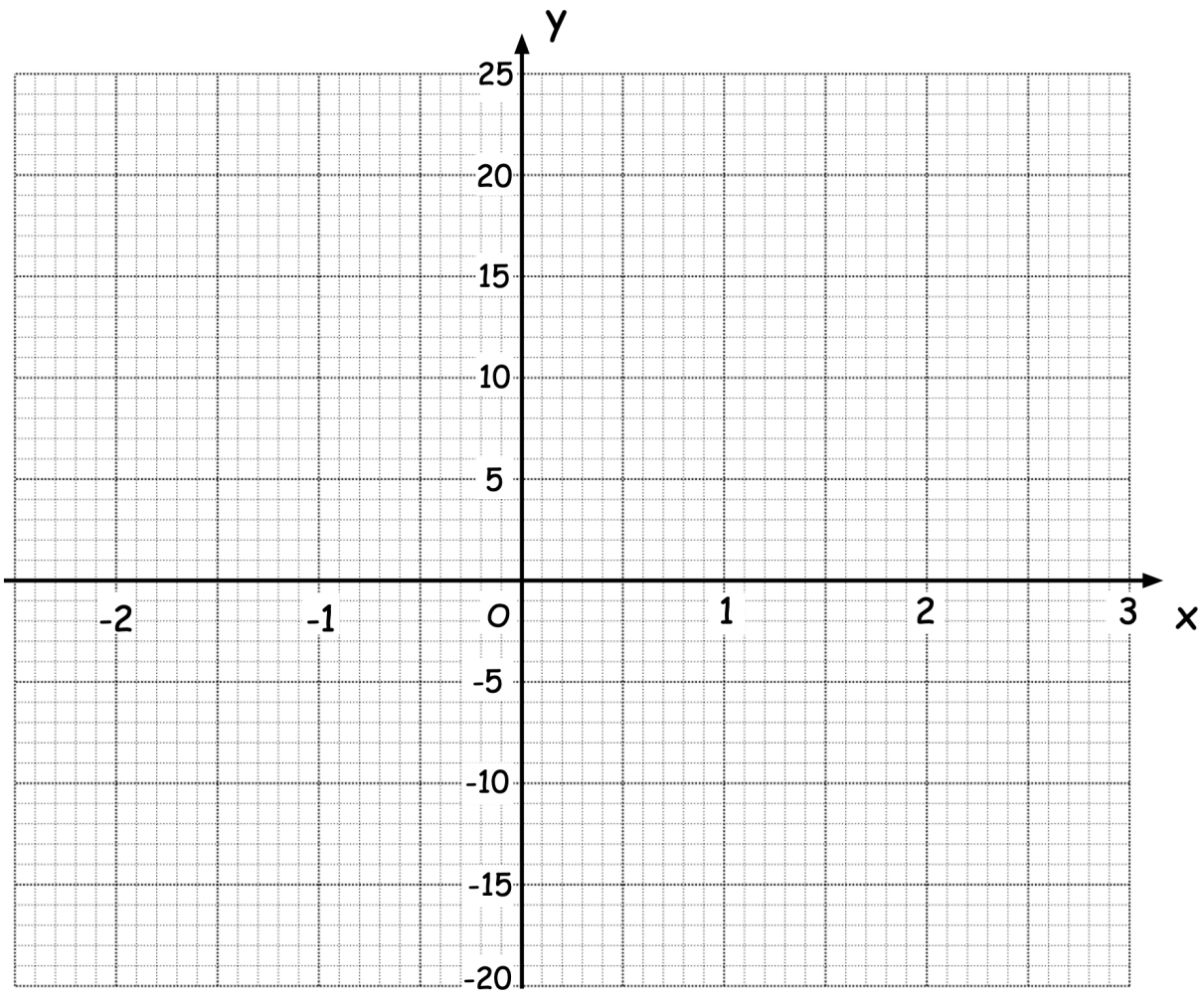
(2)

11. (a) Complete the table of values for $y = 8x + 1$

x	-2	-1	0	1	2	3
y						

(2)

(b) On the grid, draw the graph of $y = 8x + 1$



(2)

(c) Use your graph to find the value of x when y = –11

x = ...

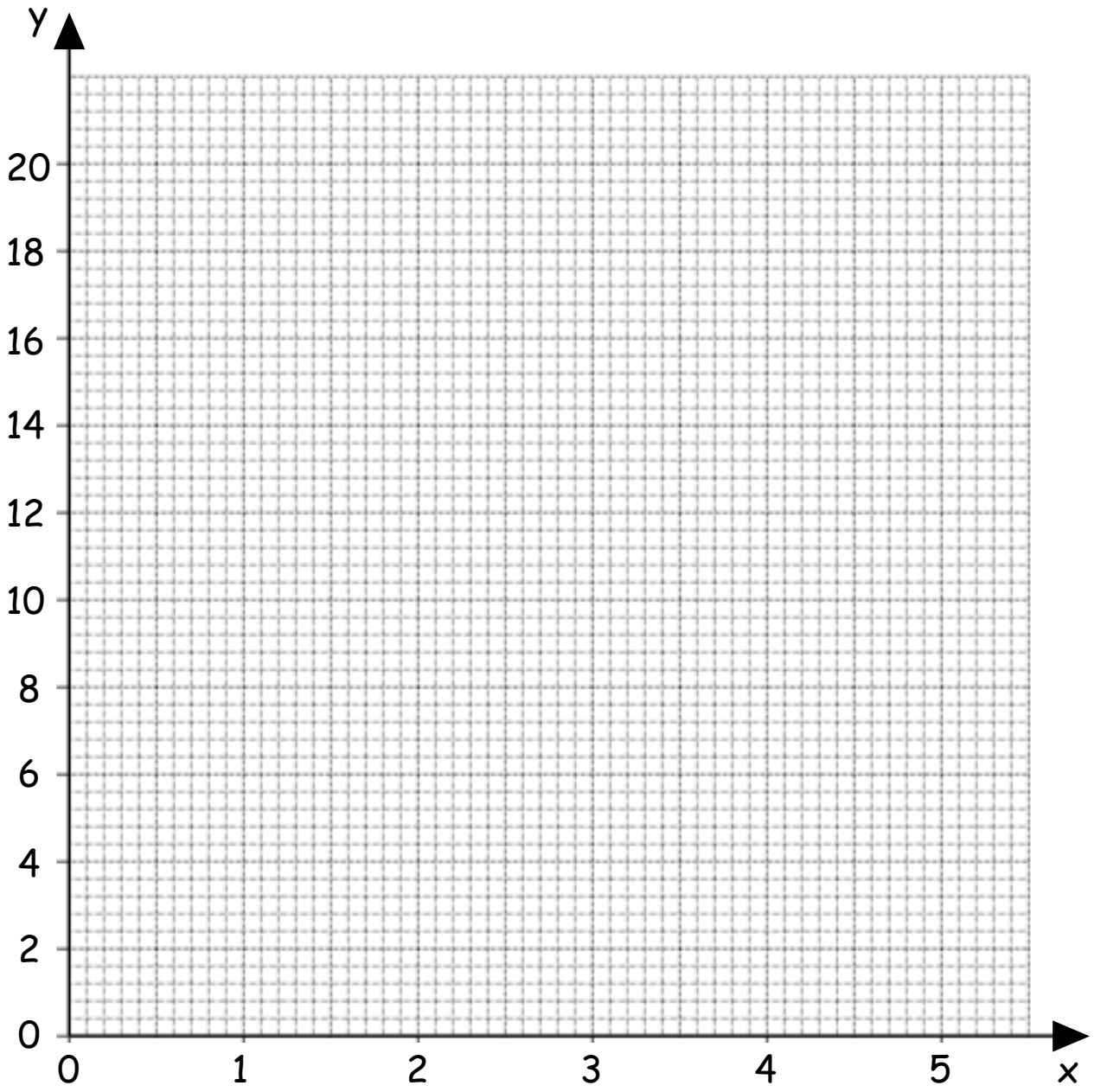
(1)

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

x	0	1	2	3	4	5
y						

(2)

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



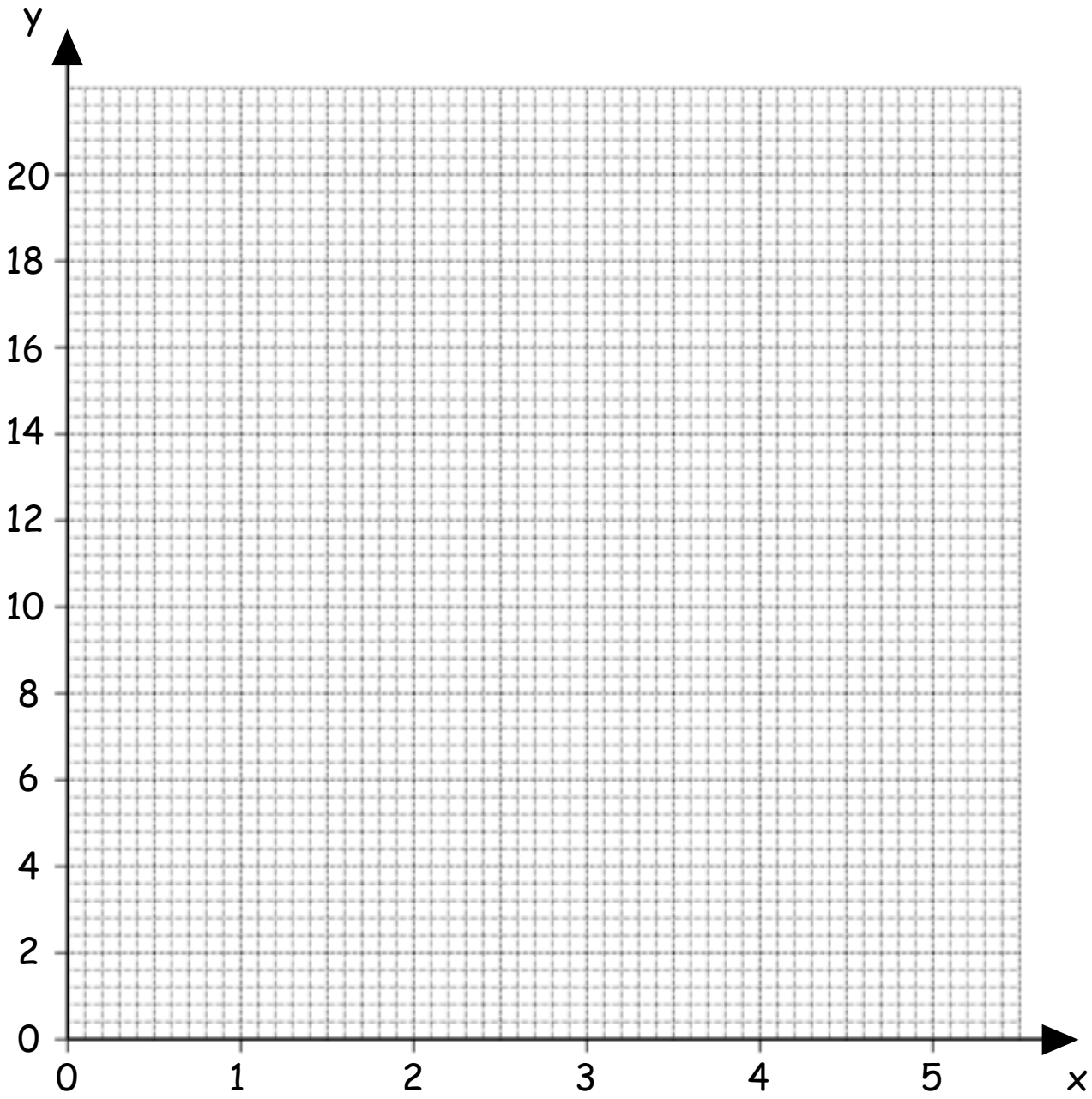
(2)

13. (a) Complete the table of values for $4x + y = 20$.

x	0	1	2	3	4	5
y						

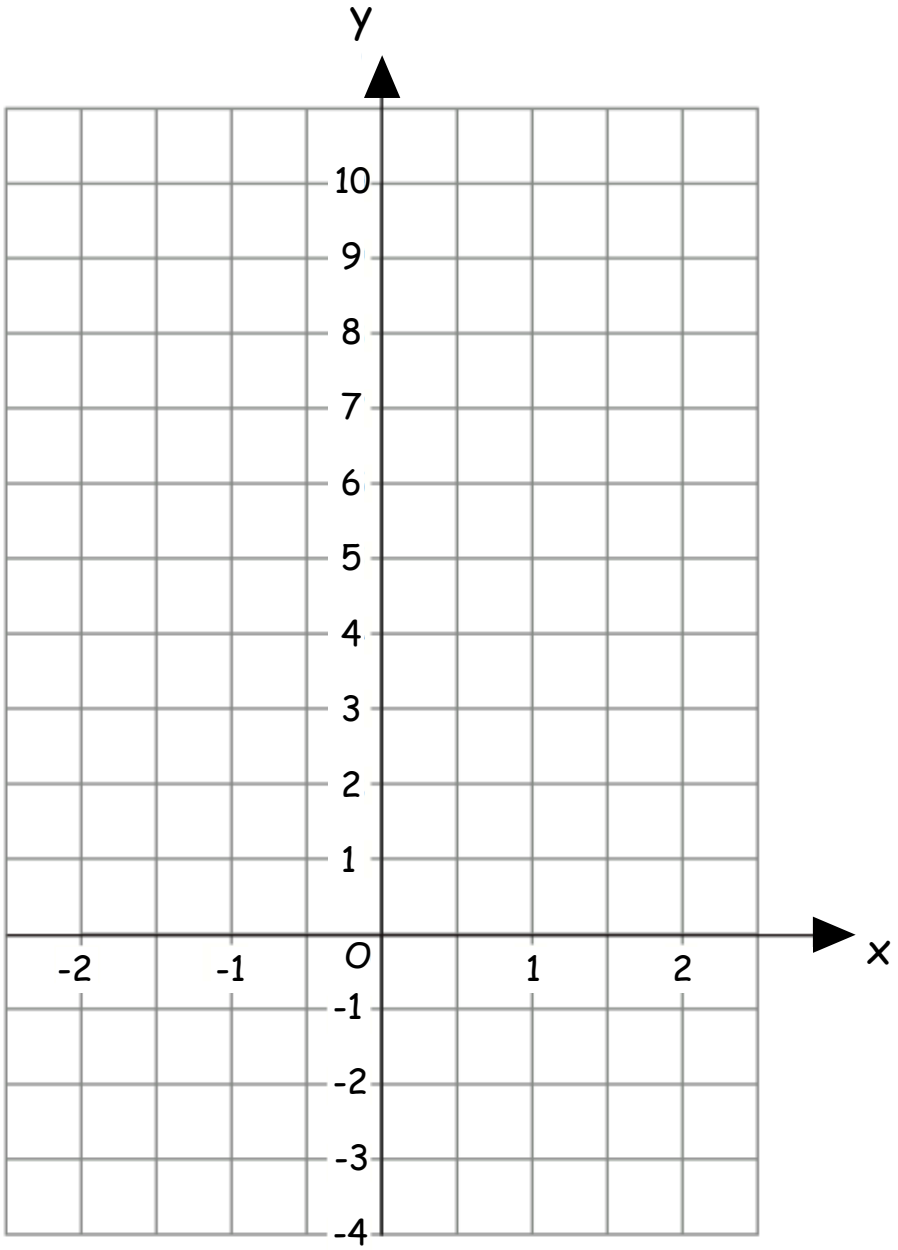
(2)

(b) On the grid draw the graph of $4x + y = 20$ values of x from 0 to 5.



(2)

14. (a) Draw the graph of $y = 4x + 2$



(3)

(b) Use your graph to solve $4x + 2 = 0$
Explain how you obtained your answer.

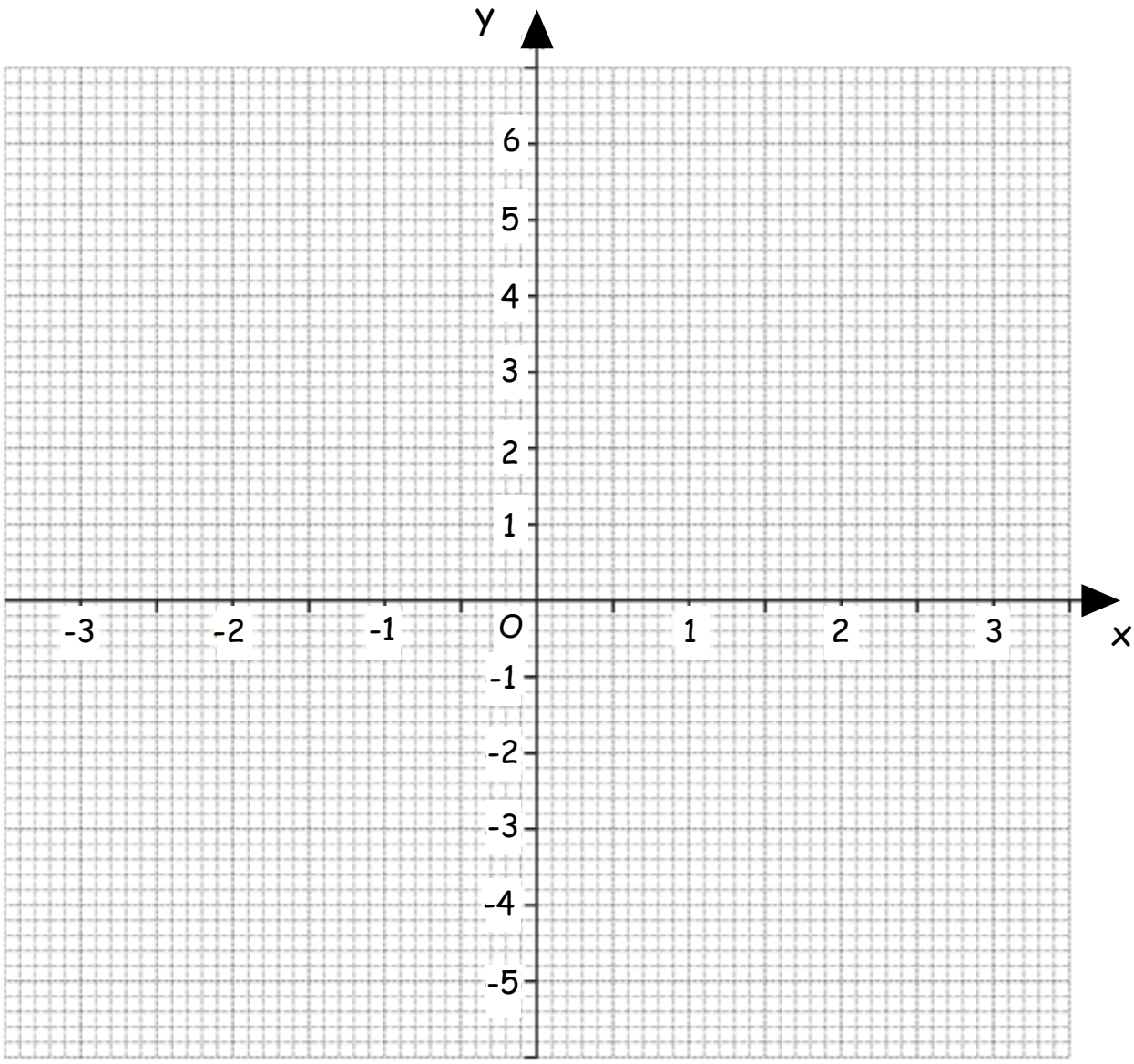
Answer x = ...

Reason .....

.....

(2)

15. (a) On the grid draw the graph of $y = 2x$ for the values of x from –2 to 3.



(3)

(b) Draw the graph $y = -3$ on the grid.

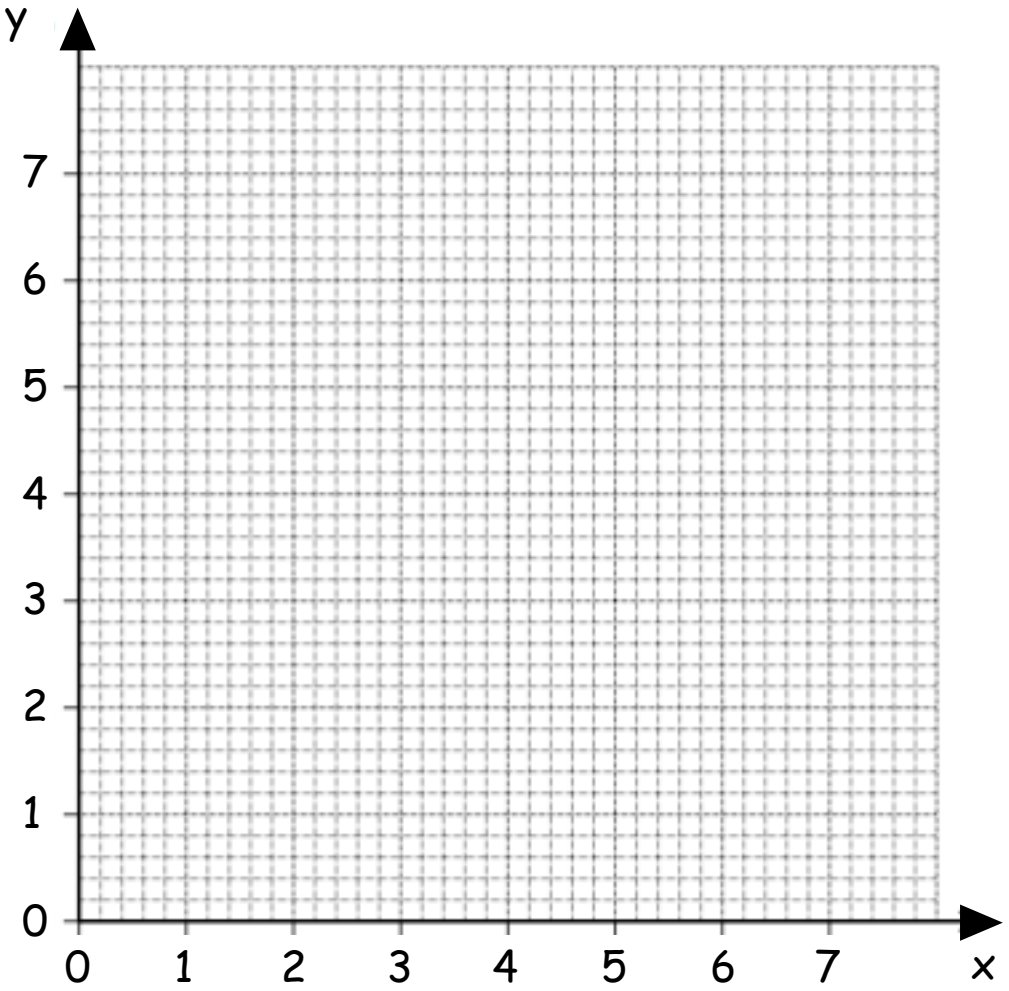
(1)

(c) Write down the coordinates of the point of intersection of the two graphs.

(..... , ...)

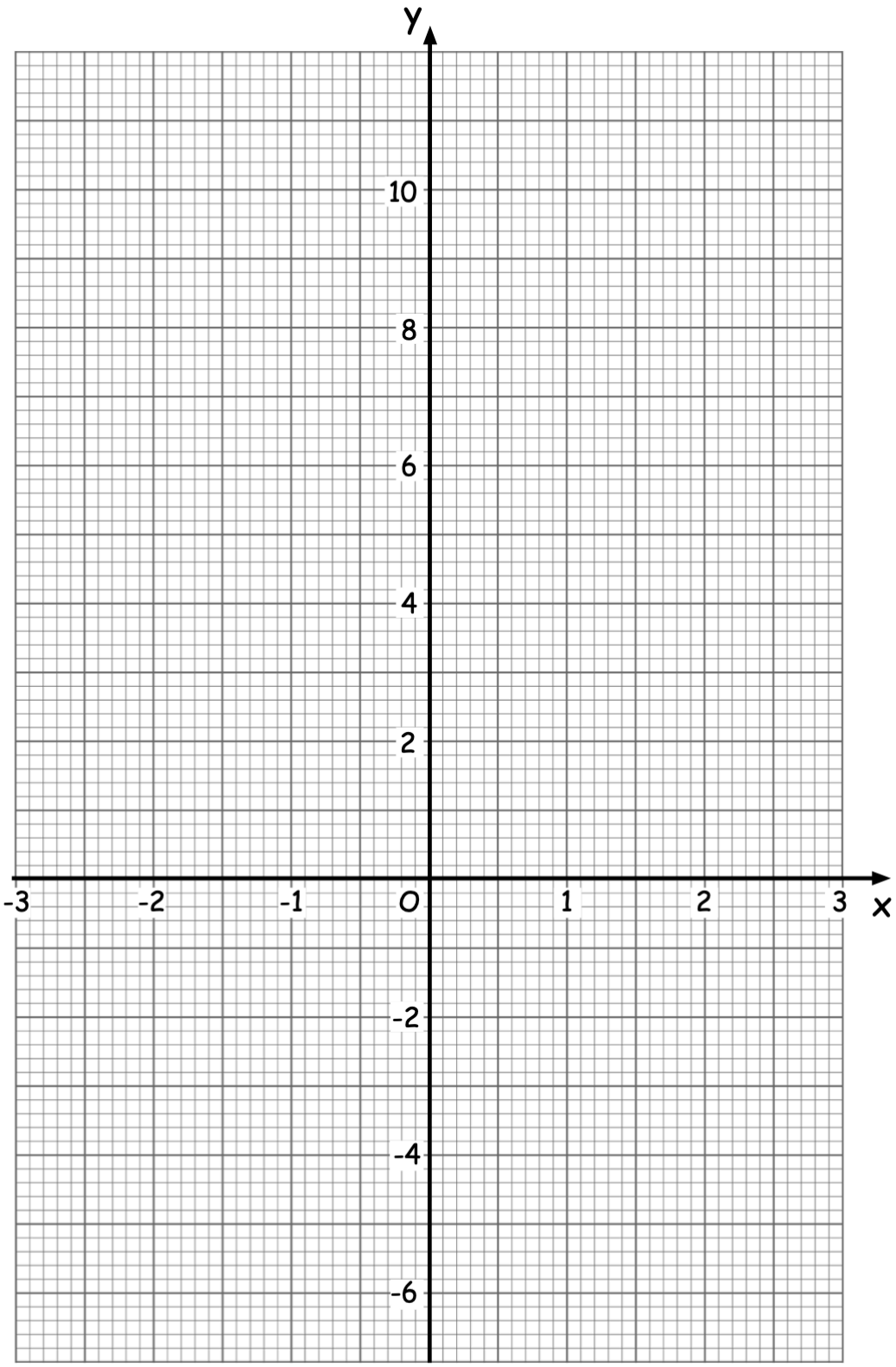
(1)

16. On the grid below, draw the graph of $y = 6 - x$



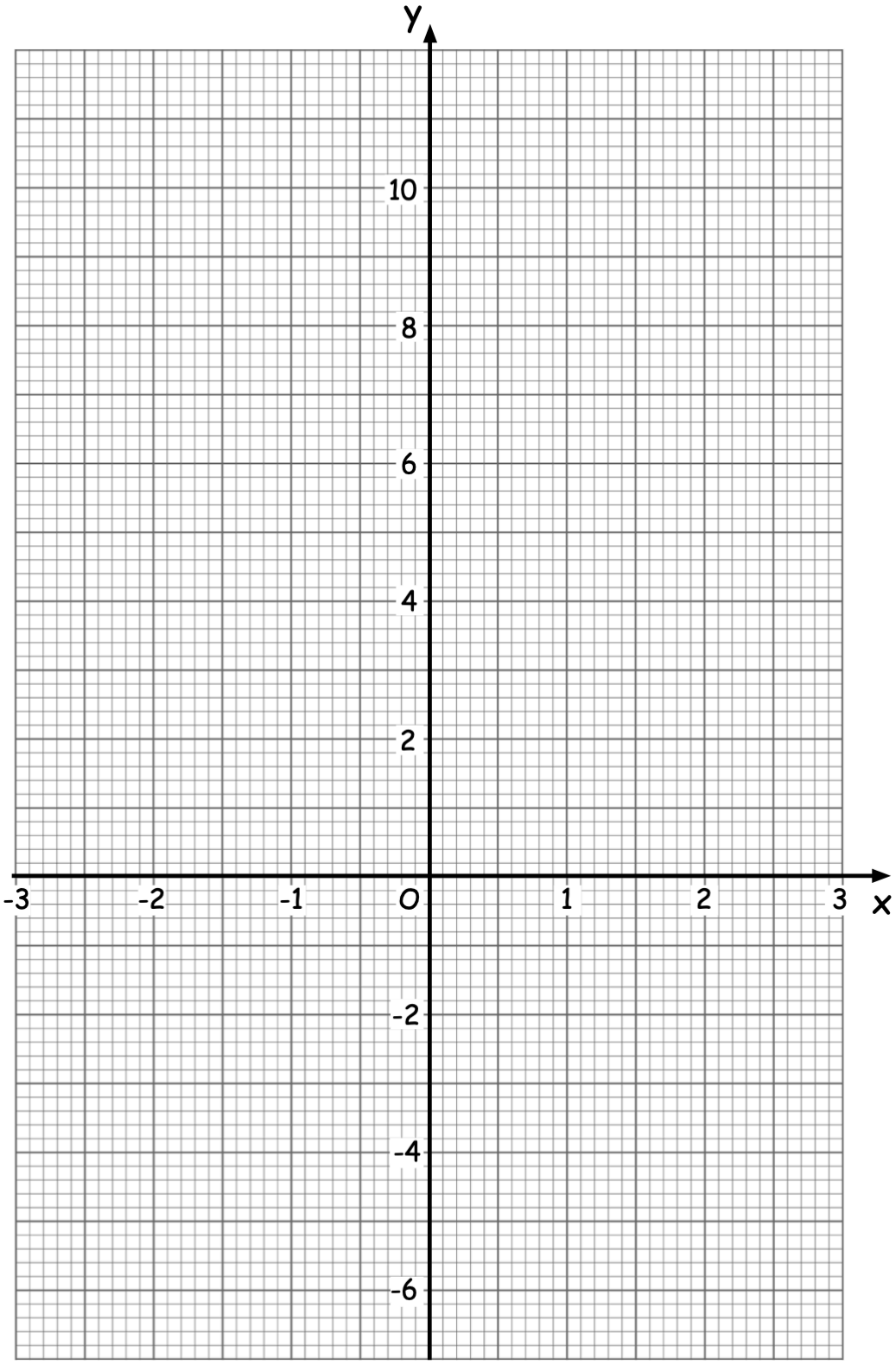
(3)

17. Draw the graph $y = 4x - 1$ on the grid below.



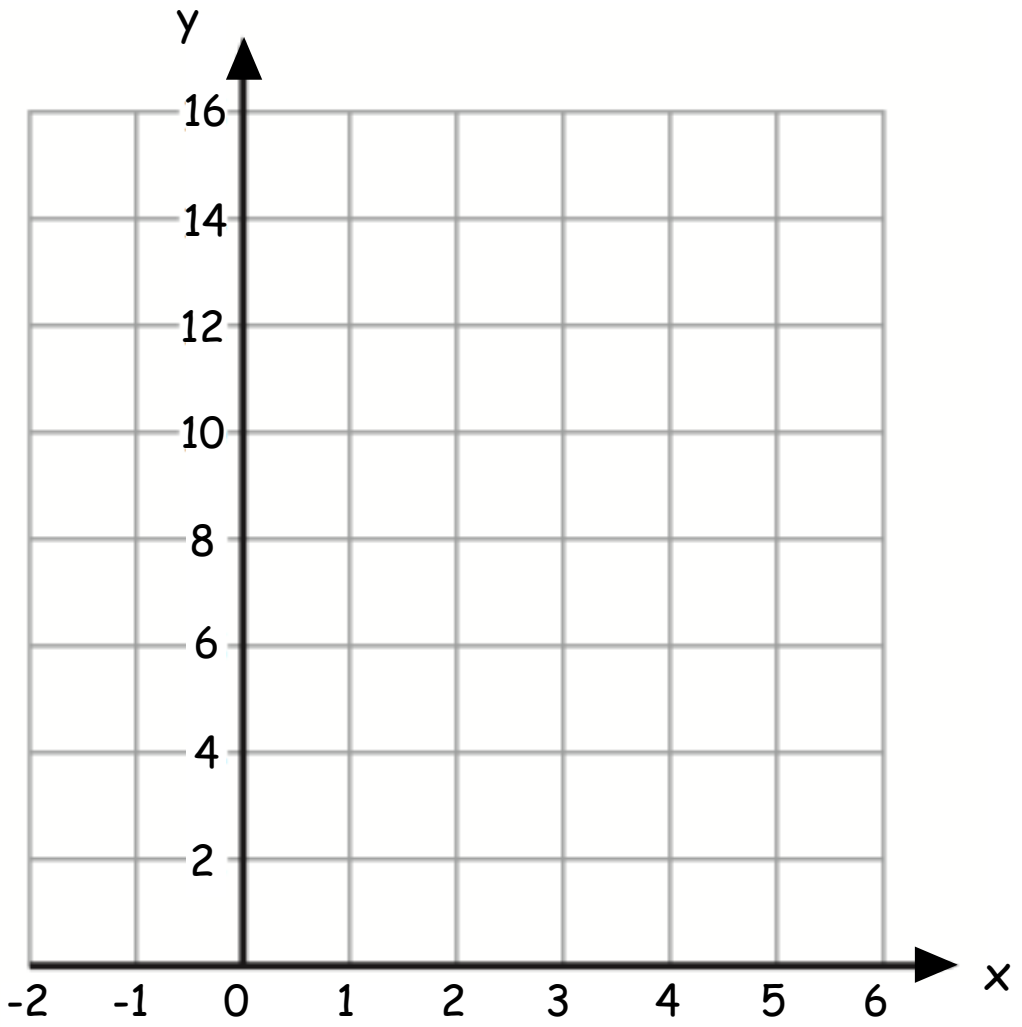
(3)

18. Draw the graph $y = 4 - 3x$ on the grid below.



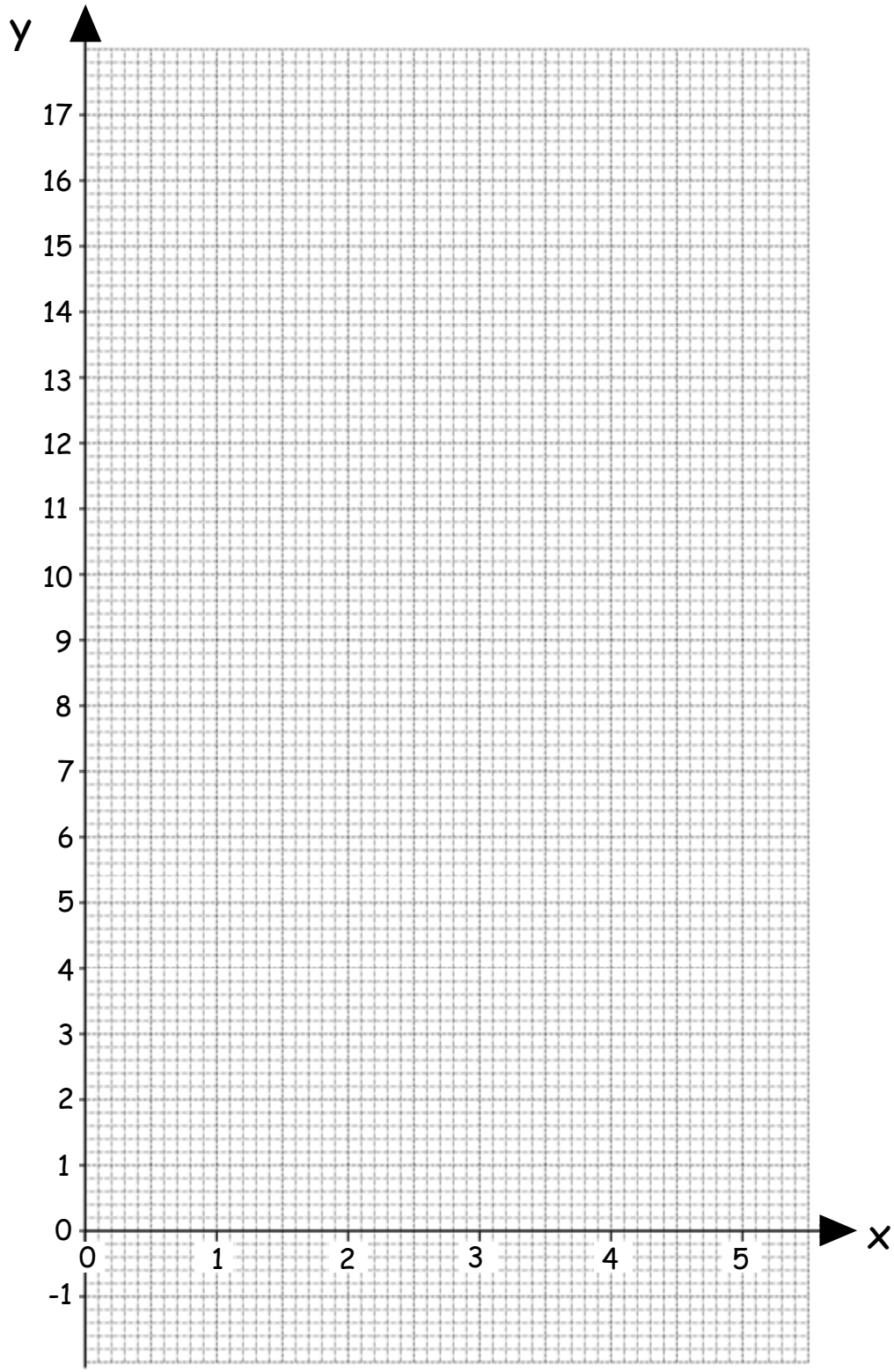
(3)

19. On the grid draw the graph of $y = 10 - 2x$ for the values of x from –1 to 5.



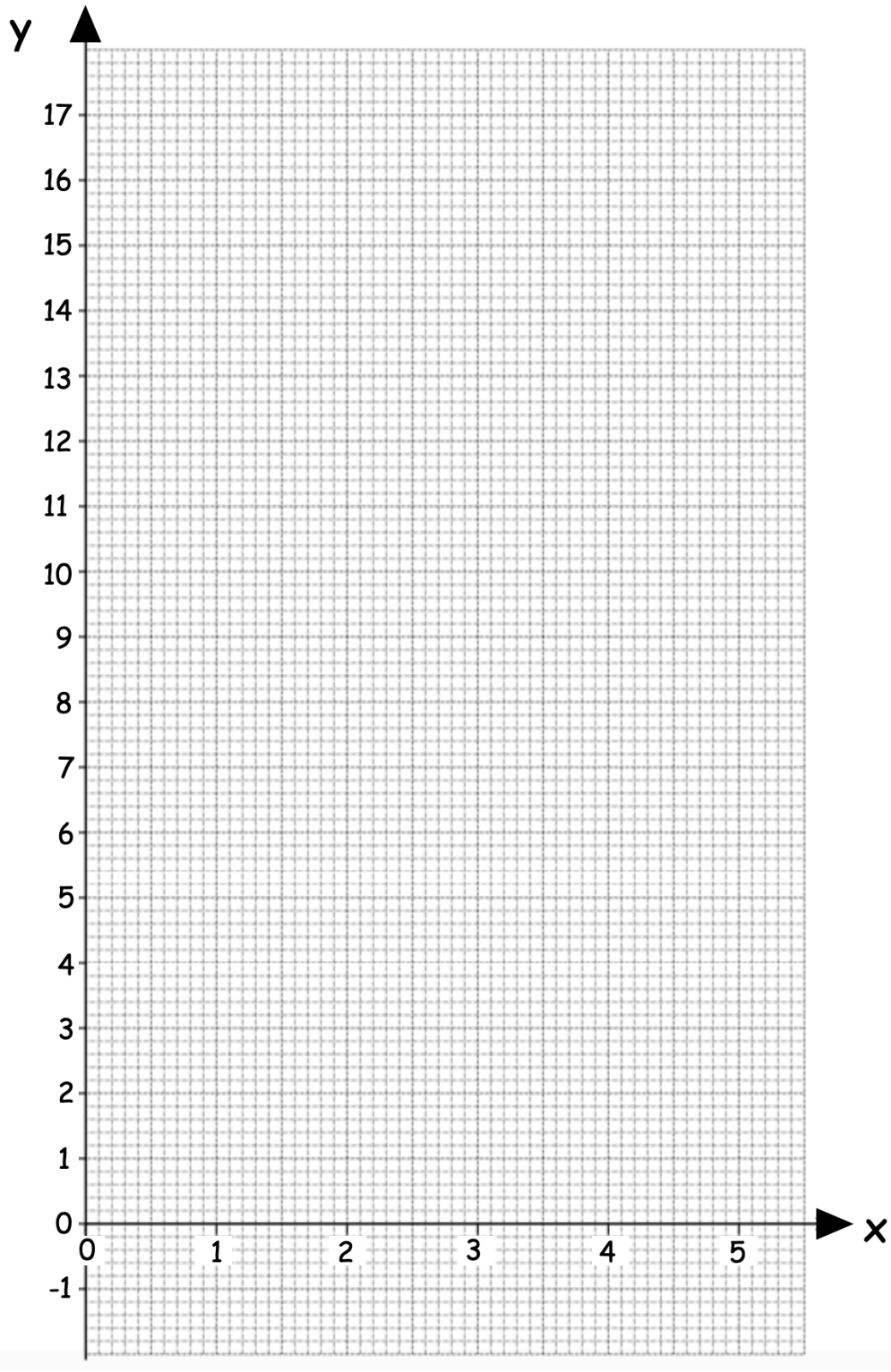
(3)

20. On the grid below draw the graph of $y = 3x - 1$ for the values of x from 0 to 5.



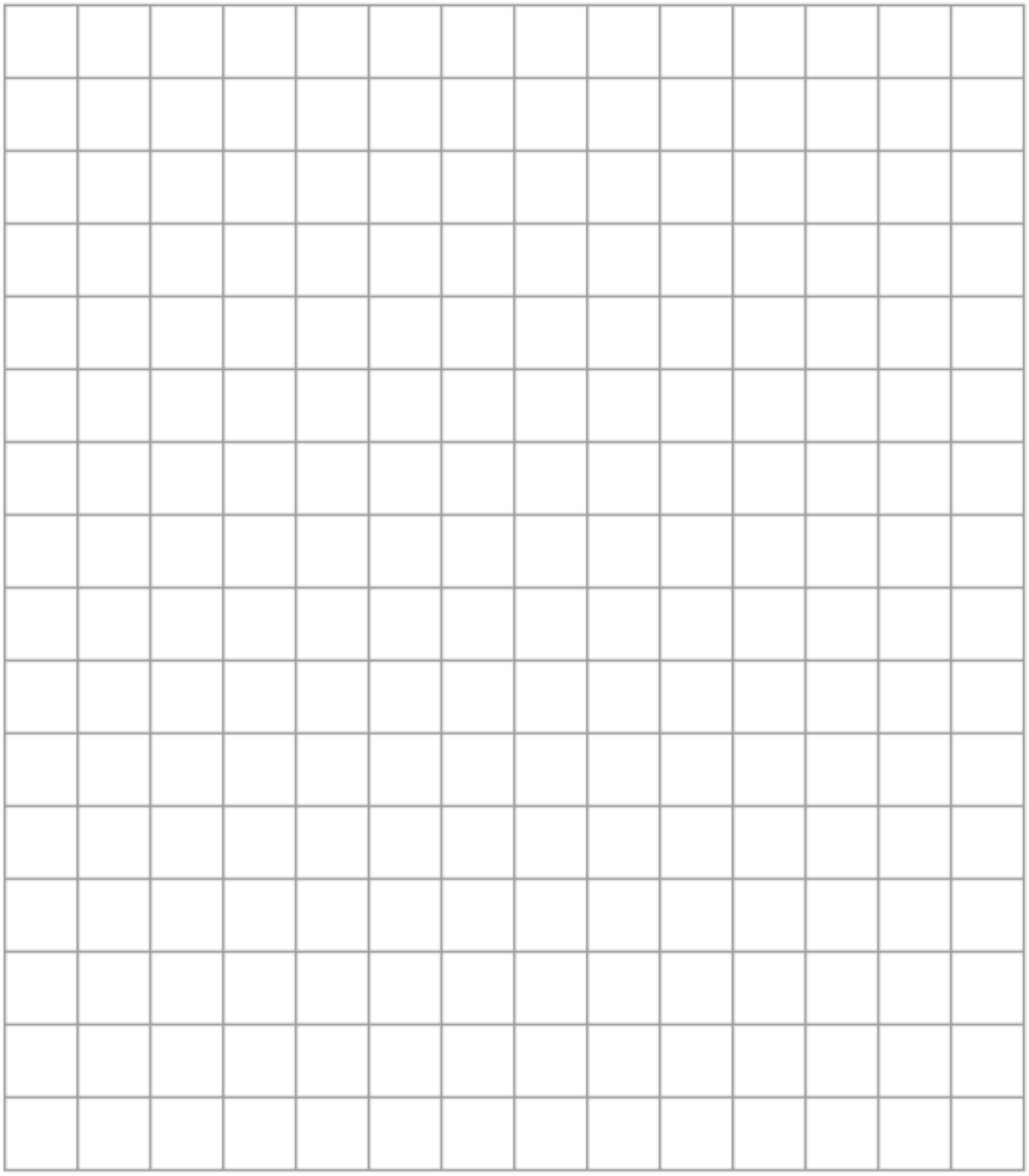
(3)

21. On the grid below draw the graph $2x + y = 10$



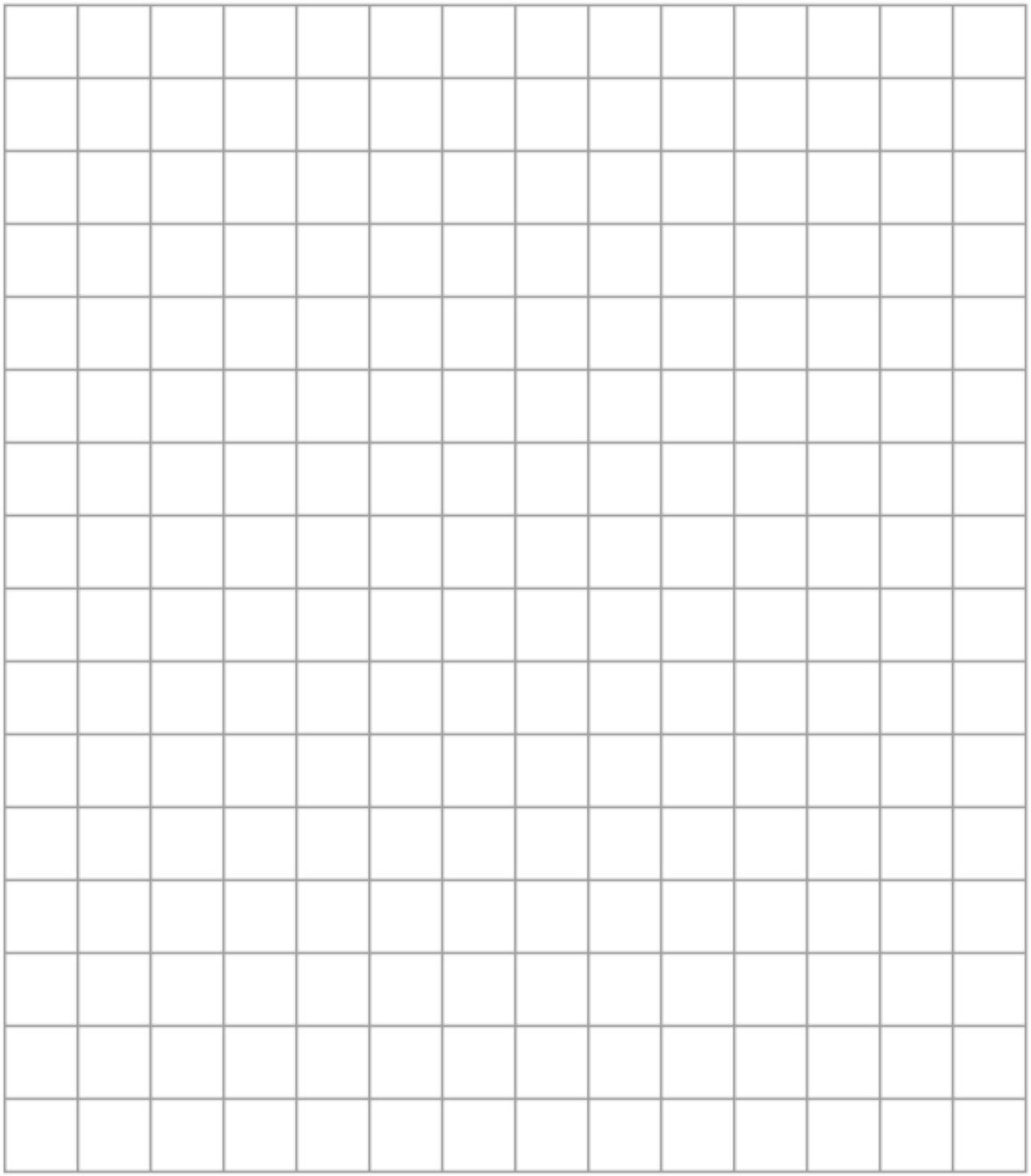
(3)

22. On the grid, draw $y = 4x - 5$ for values of x from -2 to 2.



(4)

23. On the grid, draw the graph of $3x - 2y = 6$



(4)