AQA, OCR, Edexcel

GCSE

GCSE Maths

Drawing Straight Line Graphs
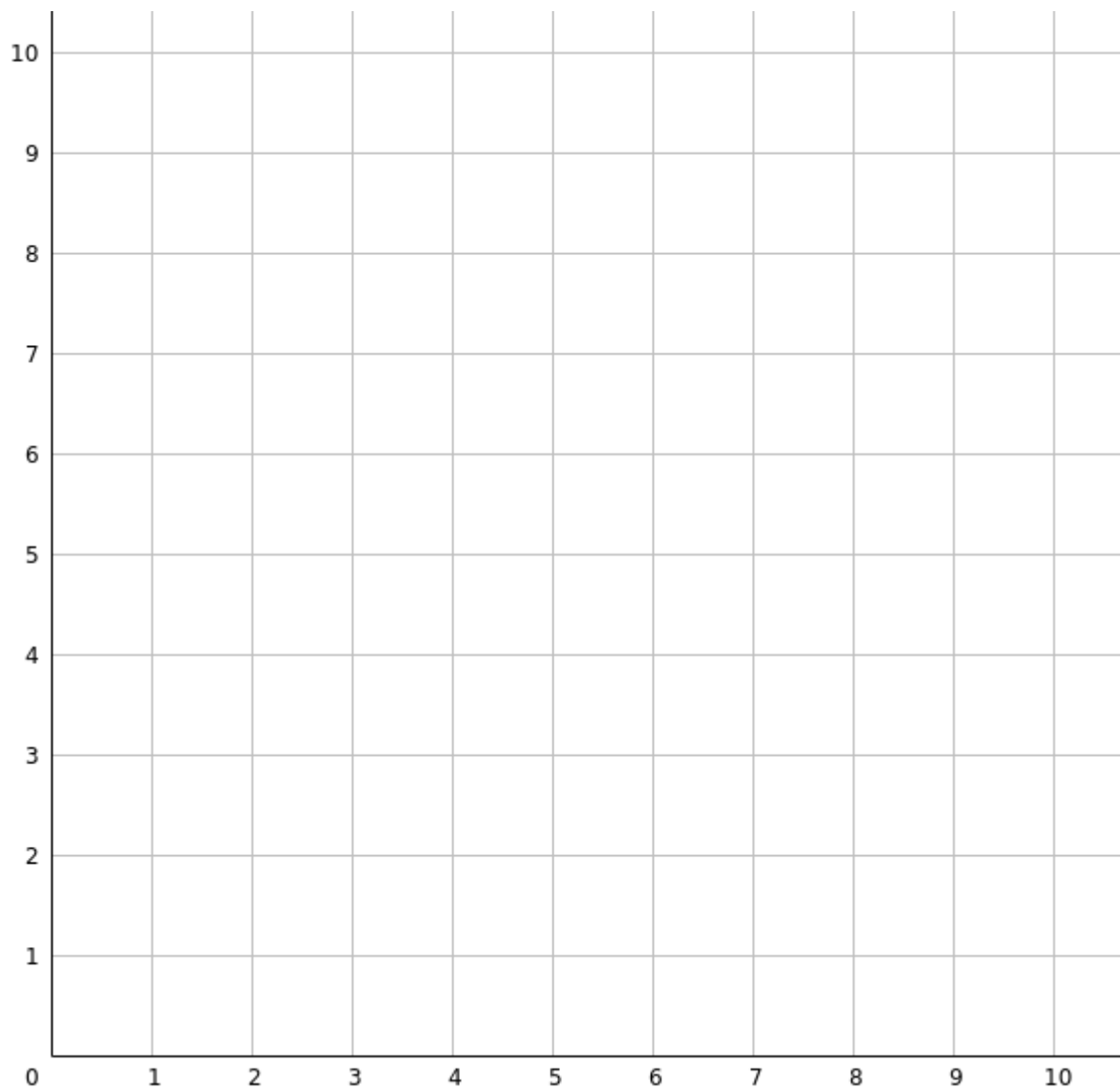
Name:

MME
Mathsmadeeasy.co.uk
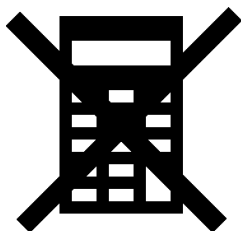
Guidance

1. Read each question carefully.
2. Don't spend too long on each question.
3. Attempt every question.
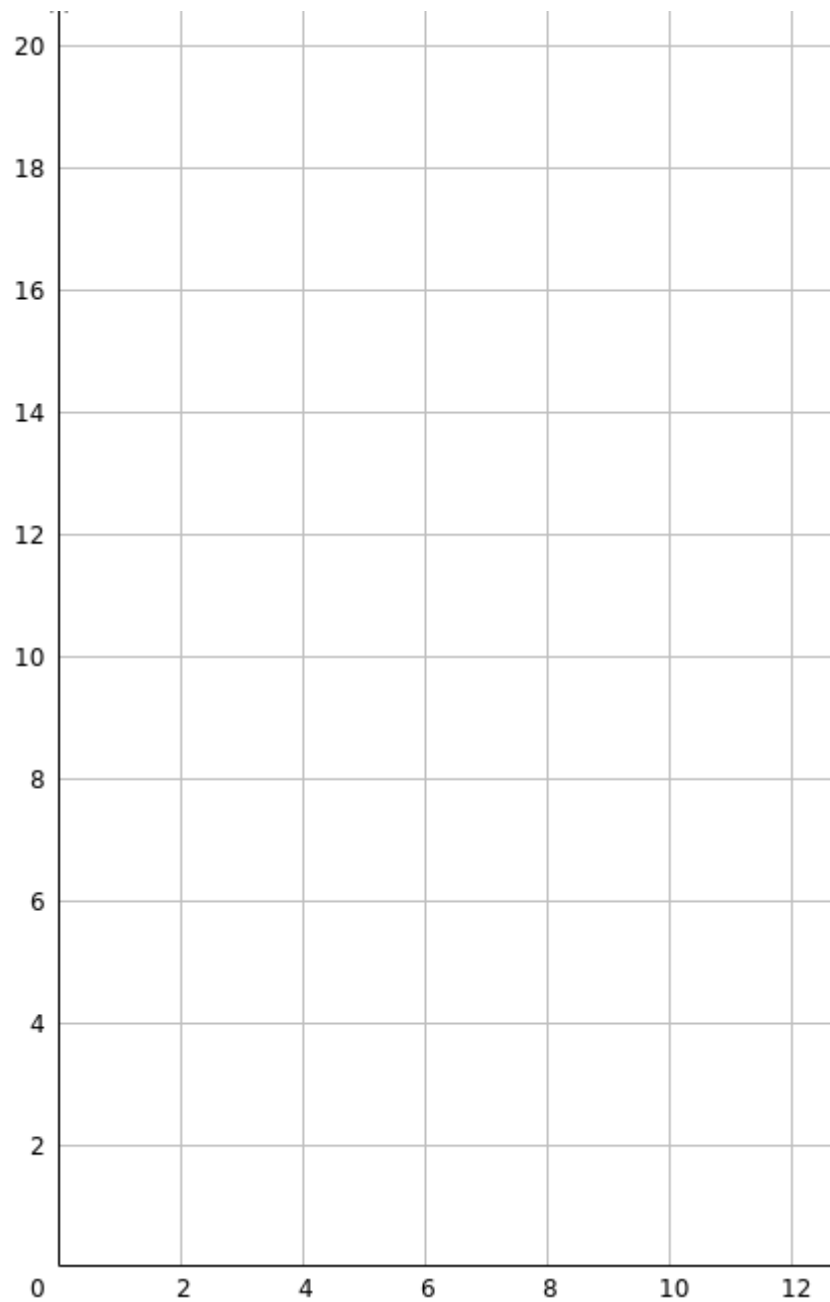4. Always show your workings.

Revise GCSE Maths:
www.MathsMadeEasy.co.uk/gcse-maths-revision/

1. On the axes below, draw the straight line with y-intercept 1, and gradient 2.

(3 marks)
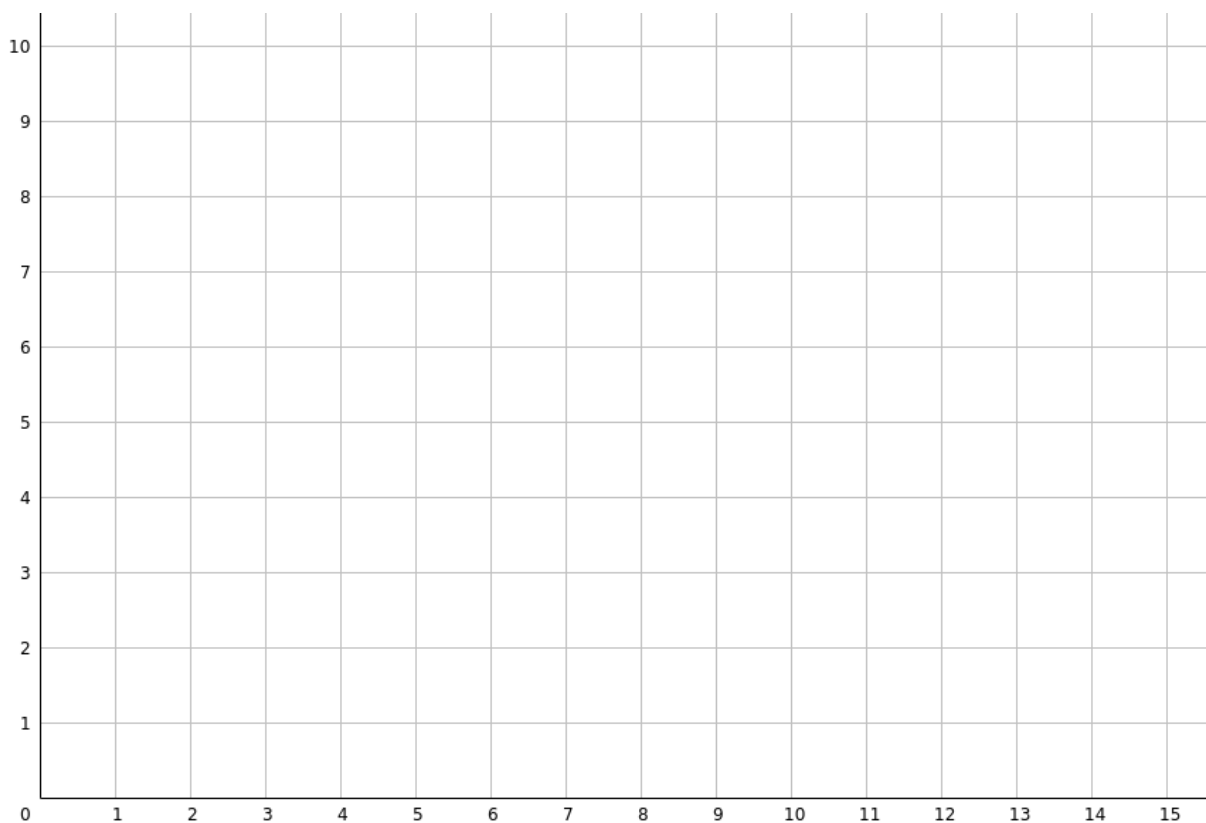
2. On the axes below, draw the line $y = 3x + 2$

(3 marks)

3. A relationship between x and y is described as follows:

   For every increase in y, x increases 3 times more.

   Fill in the rest of the xy-table and use this to plot the straight line on the axes below.

x	y
	1
	2
6	3
	4
	5

(4 marks)

4. On the square grid below, draw axes and plot the following lines

$$x = 3$$
$$y = 1$$
$$x = 7$$
$$y = 6$$

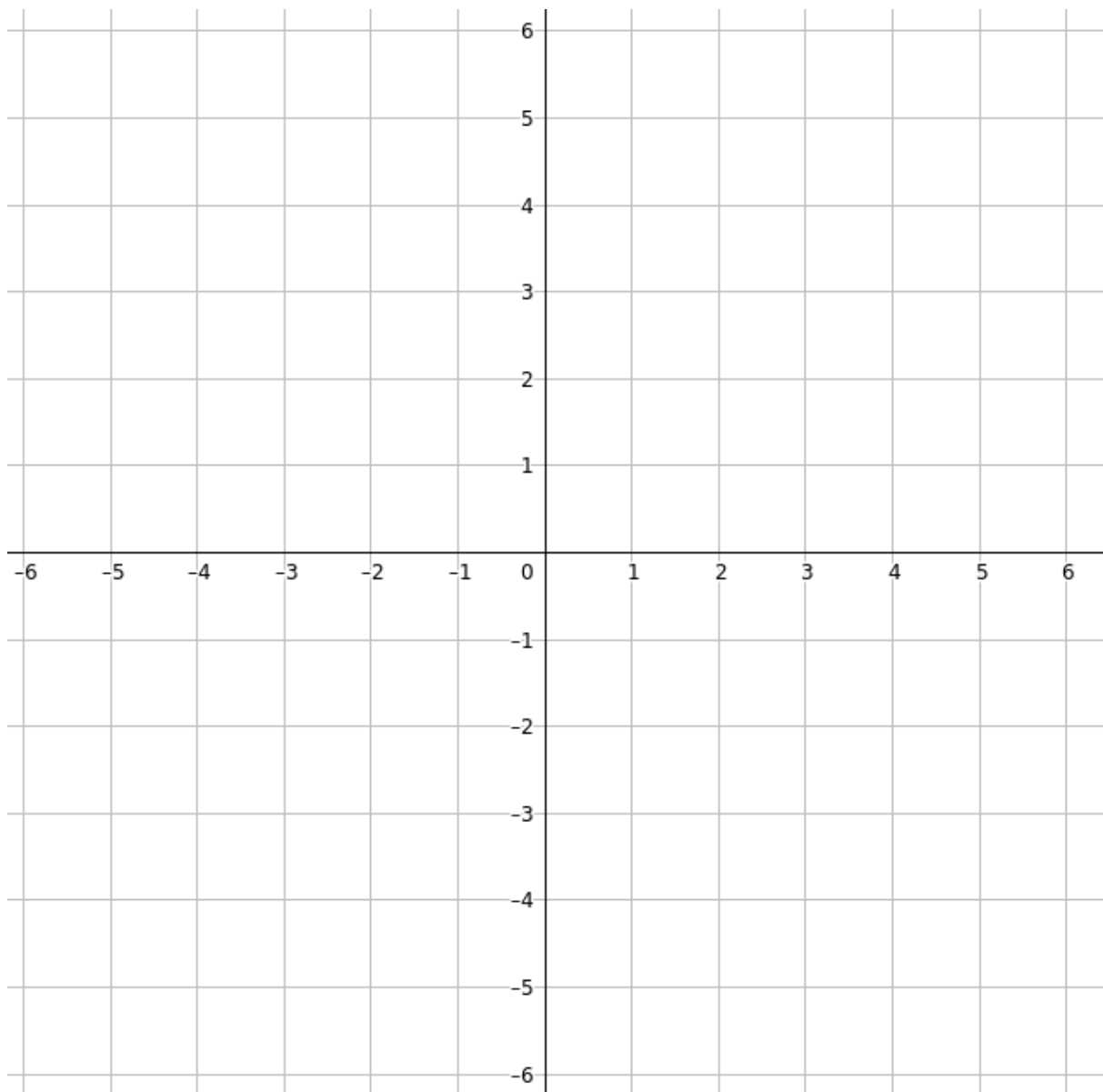What is the area of the shape bounded by the four lines?

………………………………………………………………………………..

Area = ……………

(5 marks)

5. By rearrangement or otherwise, draw the line $y + 2x - 10 = 0$ on the grid below.
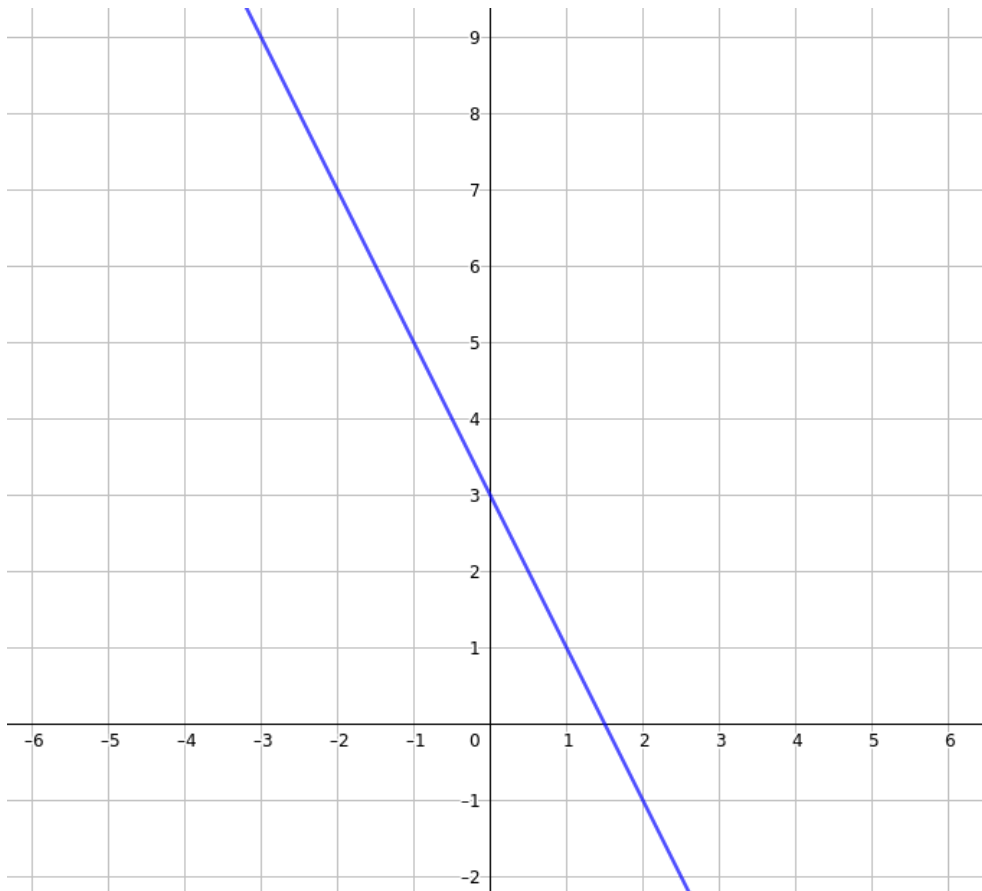
(4 marks)

6. The x-intercept of a line with gradient ½ is 3. By drawing the line on the axes below, find the y-intercept.

(2 marks)

7. Adam draws the line $y - 2x = 3$ on the axes below but makes an error.
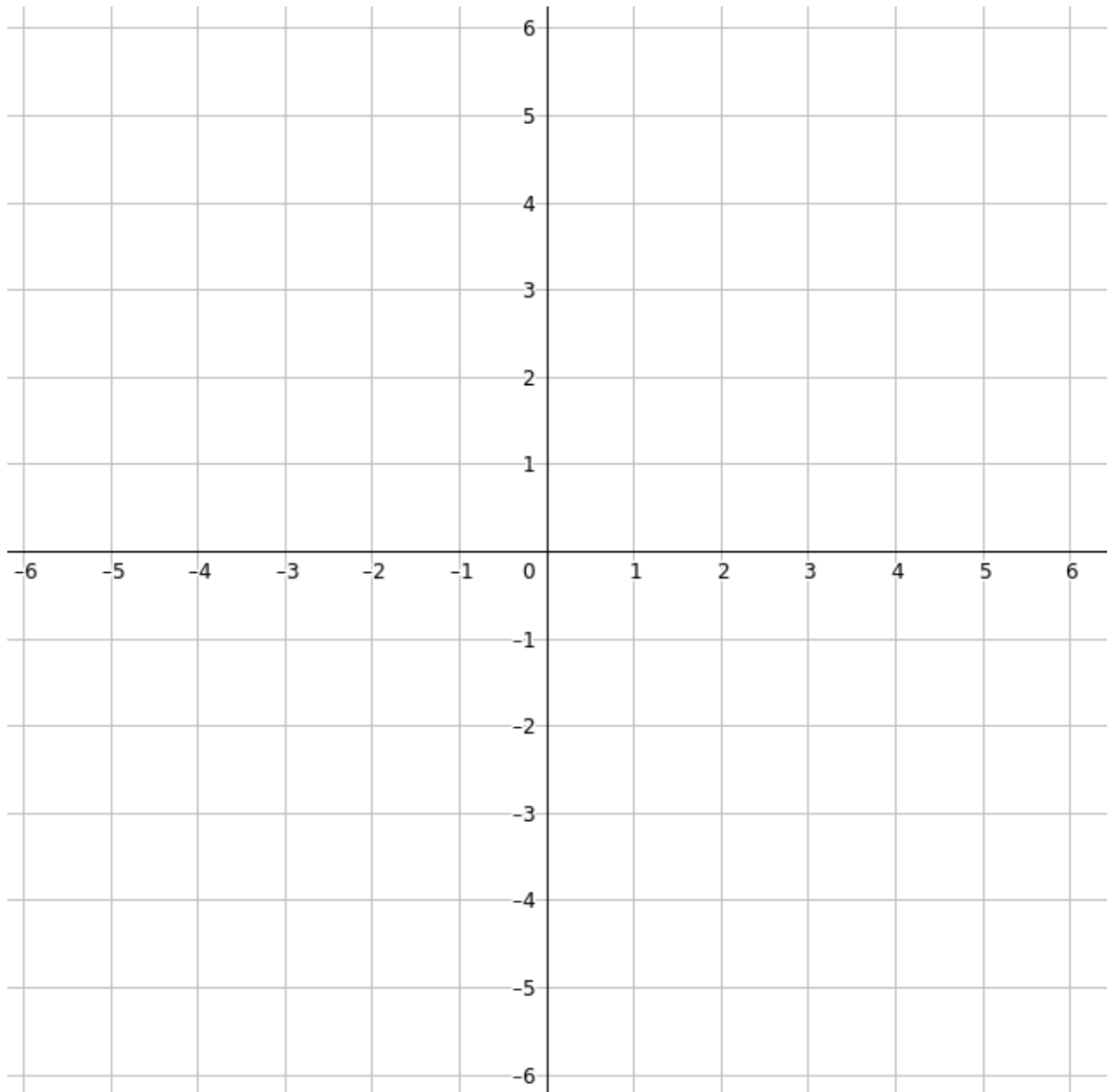

What was his error?

………………………………………………………………………………………………..

What line has he actually plotted?

………………………………………………………………………………………………..

Plot the correct graph of the line $y - 2x = 3$ on the same axes.

(5 marks)

8. Plot the graphs of $y = \frac{1}{2}x + 3$ and $y = \frac{3}{2}x - 3$ on the axes below.
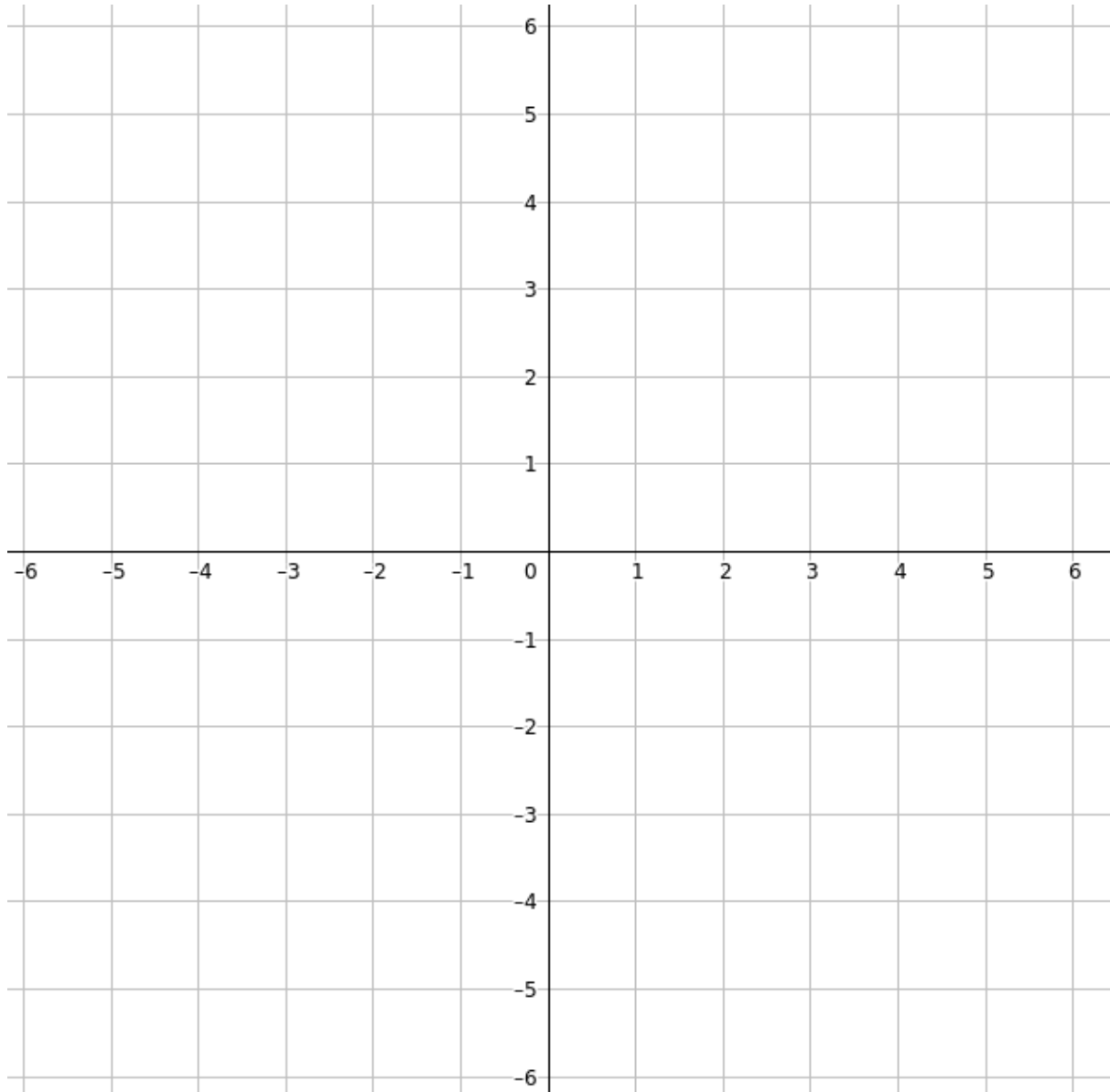
What is the point of intersection of the two lines?

$$x = \ldots\ldots , \quad y = \ldots\ldots$$

(4 marks, 1 mark)

9. On the axes below, draw the lines

$$x = -3$$
$$y = 3$$
$$2y = x + 1$$

Write down a point inside the region that is bounded by your three lines.

x = ……… , y = ………

(4 marks, 1 mark)

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