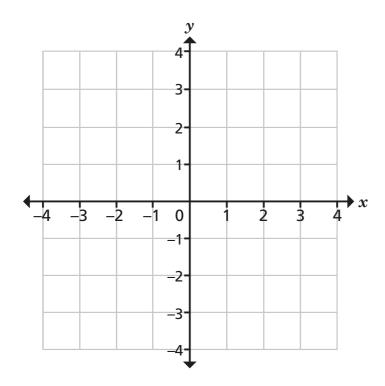






- Here is a blank coordinate grid.
 - a) Plot these points and draw lines to join them.

$$(2, -3), (0, -3), (-1, -3), (-3.5, -3)$$



b) Complete the sentences.

All of the y-coordinates are

They join to make the line y =

c) Write the coordinates of three points that lie on the line y = 8





Which of these lines are parallel to the x-axis? Tick your answers.

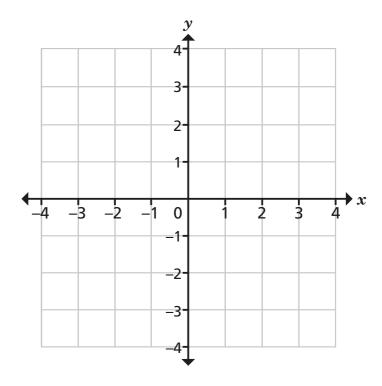
x = 0

 $6 = y \square$

6y = 2

3y + 8 = 0

Here is a blank coordinate grid.



- a) Draw the line x = 2 on the grid.
- b) Write the coordinates of three points that lie on your line.

How do these tell you that your line is correct?

c) Write the coordinates of a point on the line x = 2that you cannot see on the grid.



- **d)** Draw the line y = 1 on the same grid.
- e) Write the coordinates of the point where the lines x = 2 and y = 1 intersect.



The point (-5, 9) lies on which of these lines? Tick your answers.

y = −5

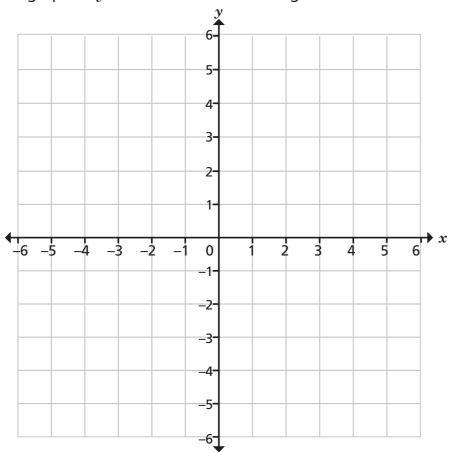
x = -5 x = 9

y = 9

Here is the table for values of y = -x.

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

- a) Complete the table.
- **b)** Plot the graph of y = -x on the coordinate grid.



- c) Plot the graph of y = x on the same grid.
- d) What is the same and what is different about the lines y = -x and y = x?

6	Are these statements always true, sometimes true or never true?

Give a reason for your answer.

a) The line y = x is the same as the line x = y.





b) The line y = x is at 45° to the x-axis.

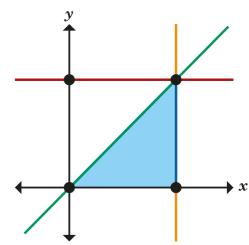
c) The line y = x passes through the 4th quadrant.

7 Tick the coordinates that lie on the line y = x.

$$(3a, a + 2a)$$

$$(0.3, \frac{1}{3})$$





Write a formula for the area of the triangle.