



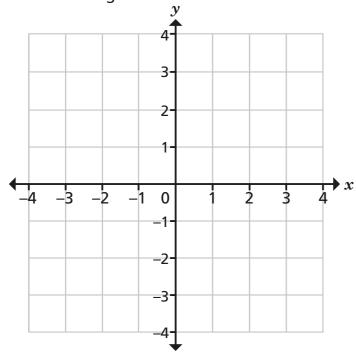
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1 Which statement is correct? Tick your answer.

The x-axis and y-axis are perpendicular to each other.

The x-axis and y-axis are parallel to each other.

2 Here is a blank coordinate grid.



a) Plot these points and join them with a straight line.

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

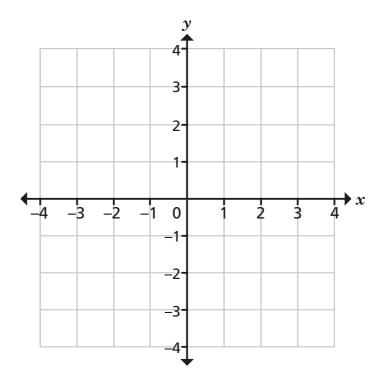
**b)** Complete the sentences.

All of the *y*-coordinates are

They join to form the line y =

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





a) Draw the line $x = 2$ on the gr	rid.
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b) Write the coordinates of three points that lie on your line.

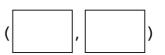
How do these tell you that your line is correct?

c) Write the coordinates of a point on the line x = 2 that 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.

$$x = -5$$

$$x = 9$$

$$y = 9$$

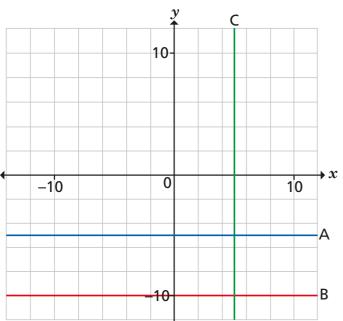
Which of these lines are parallel to the x-axis? Tick your answers.

$$x = 0$$

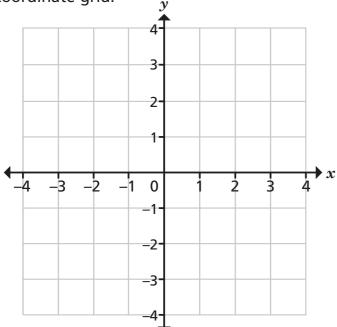
$$6y = 2$$

$$3y + 8 = 0$$

The graph shows three straight lines: A, B and C.



- a) Which two lines are parallel to each other? \_\_\_\_\_ and \_\_\_\_
- **b)** Which line is parallel to the *y*-axis? \_\_\_\_\_
- c) What is the equation of line A? \_\_\_\_\_
- d) What is the equation of line C? \_\_\_\_\_
- 7 Here is a blank coordinate grid.



Four vertices of a rectangle are given by the coordinates (2, -3), (4, -3), (2, 1) and (4, 1).

Write the equations for the two lines of symmetry of the rectangle.

and

8 Which of these lines does the point (13, –5) lie on? Tick your answers.

*y* = 13

*x* = 13

y = -5

*x* = −5

y + 2 = -5 + 2

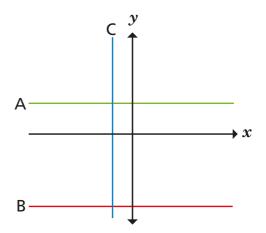
x - 13 = 0

y + 7 = 20

y + 5 = 0

Compare answers with a partner.

9 The graph shows three lines: A, B and C.



a) Line A passes through the point (42, 11). What is the equation of line A?

b) Line C passes through the point  $(-\frac{3}{2}, -51)$ . What is the equation of line C?

c) Lines B and C intercept at the point (p, -14). What is the value of p?

**d)** A fourth line, D, is drawn such that the region enclosed by all four lines is a square.

What is the equation of line D?