

Identify and draw lines that are parallel to the axes

1 Which statement is correct? Tick your answer.

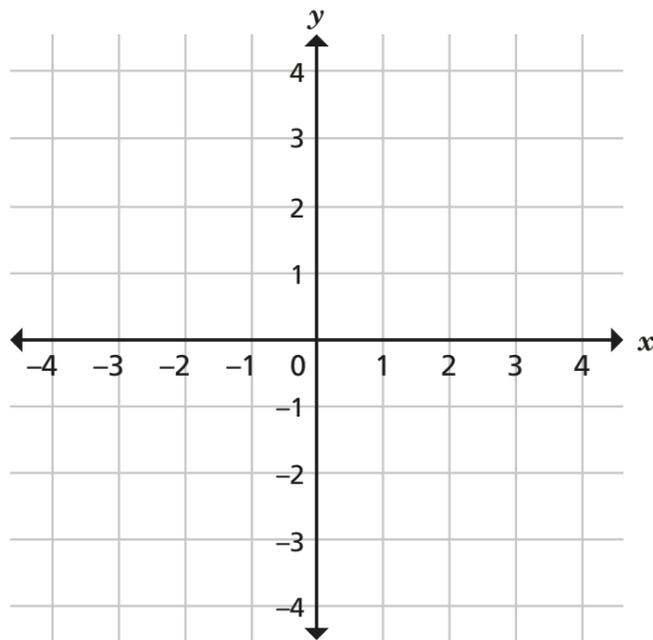
The x -axis and y -axis are perpendicular to each other.

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

2 Here is a blank coordinate grid.

a) Plot these points and draw lines to join them.

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



b) Complete the sentences.

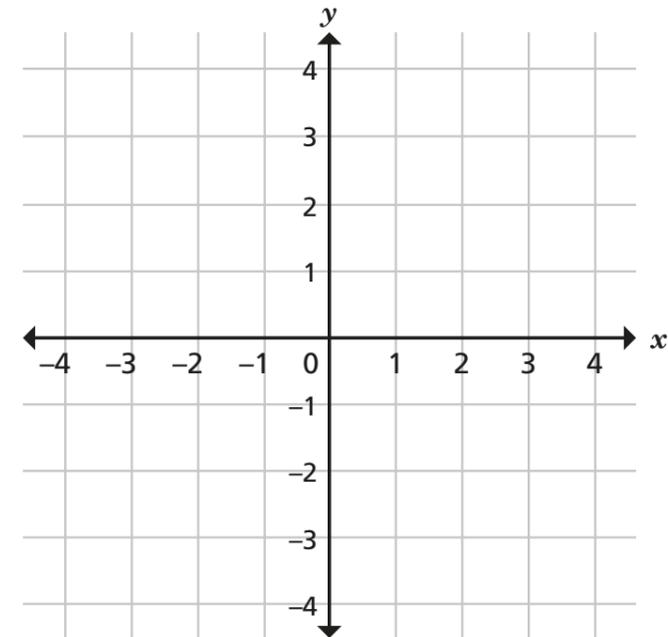
All of the y -coordinates are

They join to make the line $y =$

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

(,) (,) (,)

3 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 $x = 2$ 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. (,)

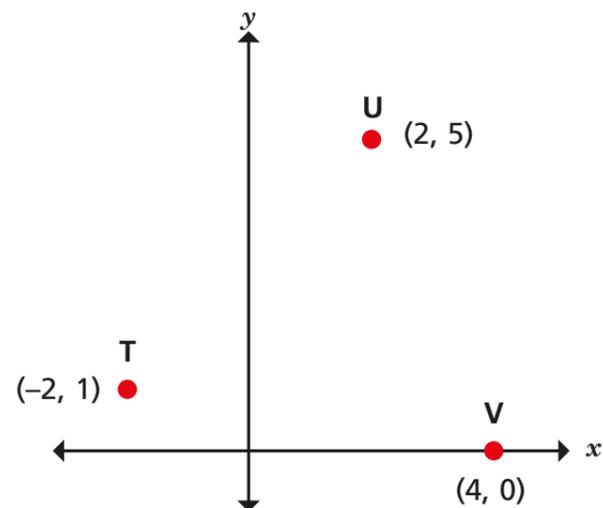
4 The point $(-5, 9)$ lies on which of these lines?

$y = -5$ $x = -5$ $x = 9$ $y = 9$



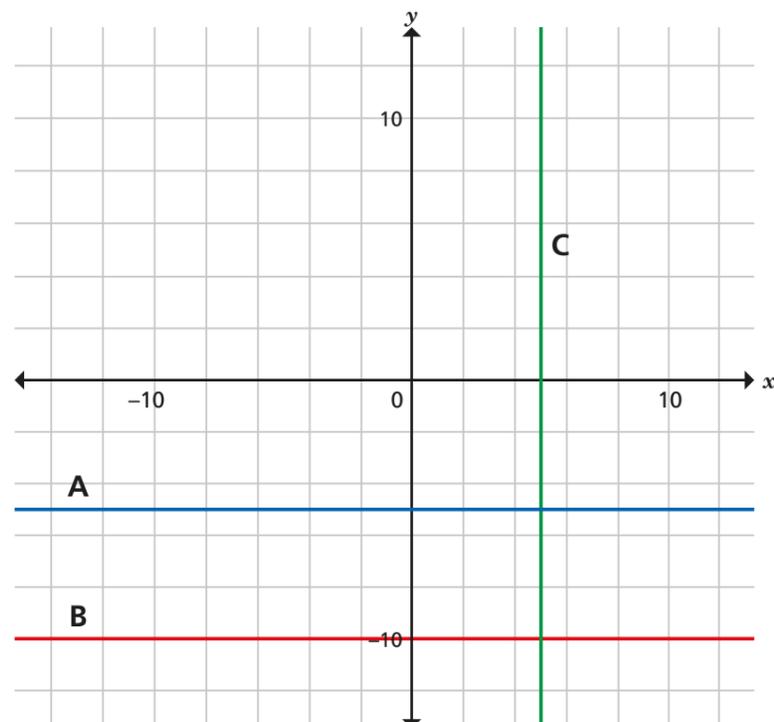
5 The points T, U and V are shown.

Tick the points that satisfy the statements in the table.



Statement	T	U	V
Above $y = 4$			
Left of $x = -1$			
Below $y = 0.5$			

6 The graph shows 3 straight lines: A, B and C.

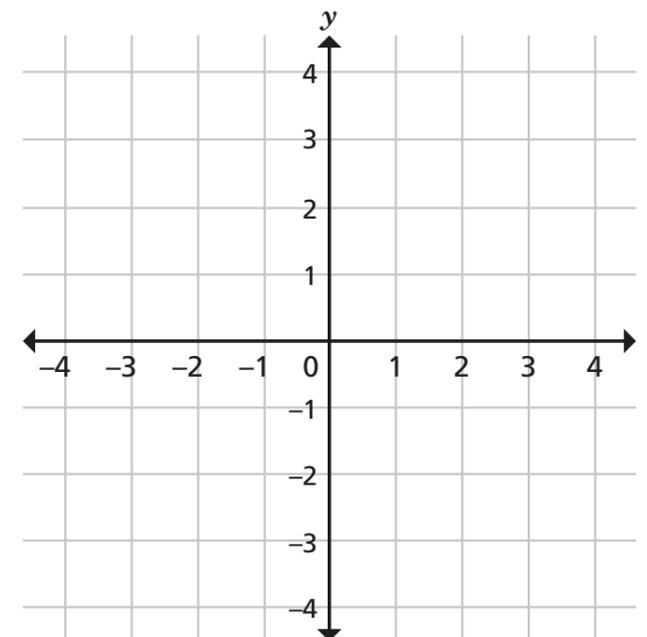


- Which two lines are parallel to each other? _____ and _____
- Which line is parallel to the y -axis? _____
- What is the equation of line A? _____
- What is the equation of line C? _____

7 Which of these lines are parallel to the x -axis?

$x = 0$ $6 = y$ $6y = 2$ $3y + 8 = 0$

8 Here is a blank coordinate grid.



- Plot the points $(2, -3)$, $(4, -3)$, $(2, 1)$ and $(4, 1)$.
Join them to make a rectangle.
- Write the equations for the two lines of symmetry of the rectangle.
_____ and _____
- What are the coordinates of the centre of the rectangle?
 (\square, \square)

