## Identify and draw lines that are parallel to the axes



Which statement is correct? Tick your answer.

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



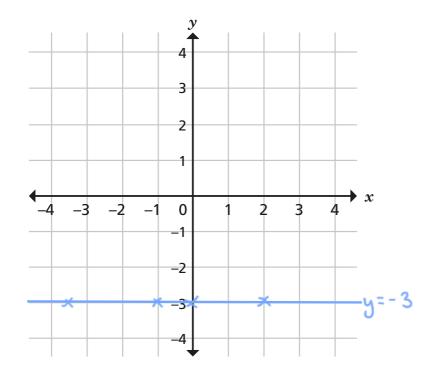
The x-axis and y-axis are parallel to each other.



Here is a blank coordinate grid.

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

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



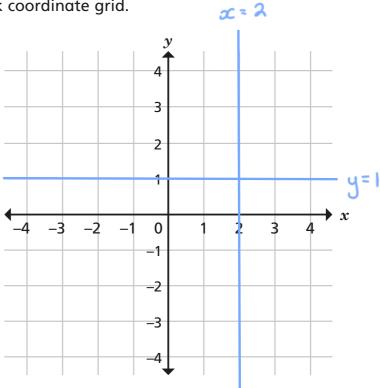
**b)** Complete the sentences.

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

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?

All or the oc-coordinates are equal

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?

$$y = -5$$

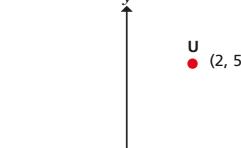
$$y = -5$$
  $x = -5$   $x = 9$ 

$$x = 9$$

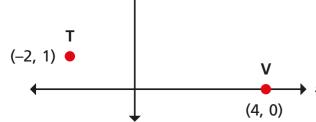
$$y = 9 \sqrt{\phantom{a}}$$

The points T, U and V are shown.

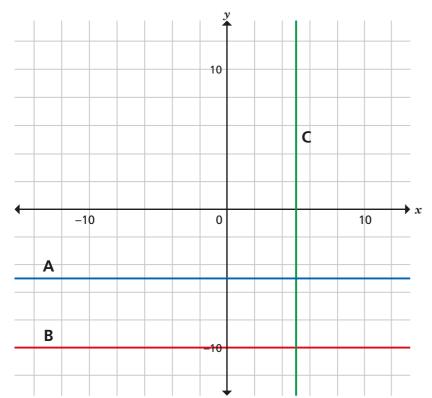
Tick the points that satisfy the statements in the table.



Statement	Т	U	<b>/</b> V
Above $y = 4$		>	
Left of $x = -1$			
Below $y = 0.5$			



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



- a) Which two lines are parallel to each other? \_\_A\_\_ and \_\_\_\_\_
- **b)** Which line is parallel to the *y*-axis? \_\_\_\_\_
- c) What is the equation of line A? 4=5
- d) What is the equation of line C? x=5

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

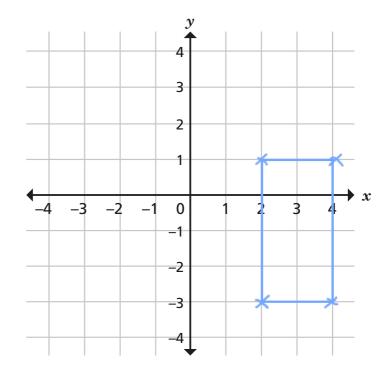
$$x = 0$$

$$6 = y$$

$$6y = 2$$

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

Here is a blank coordinate grid.



- a) Plot the points (2, -3), (4, -3), (2, 1) and (4, 1). Join them to make a rectangle.
- b) Write the equations for the two lines of symmetry of the rectangle.

$$y = -1$$
 and  $x = 3$ 



c) What are the coordinates of the centre of the rectangle?

