Int 2

Horizontal/Vertical Lines & T-Charts

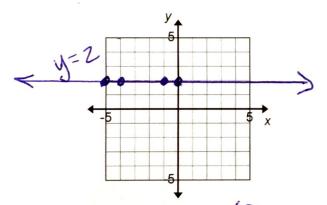
Unit 2

You want to graph the line y = 2. This means that the y-coordinate is 2 in every point on the line. Write 3 points that have 2 for the y-coordinate, and fill in the table.

(-1,2) (0,2) (-4,2)

x	y
	2
0	2
-4	2
-5	2
(2 -	2

Now plot the points.



The slope of the line is

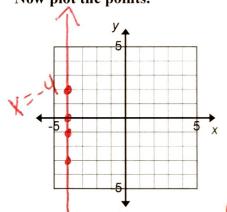
The line shorizontal vertical. (circle one)

2. You want to graph the line x = -4. This means that the x-coordinate is -4 in every point on the line. Write 3 points that have -4 for the x-coordinate.

(-4, -1) (-4, -3)

x	y
-4	2
-4	-1
-4	-3
-4	\mathcal{D}

Now plot the points.



The slope of the line is

The line is horizontal vertical. (circle one)

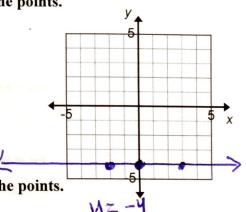
Write 3 points that will be on the line, and then graph the line from the points.

(0,-4) (3,-4) (-2,4)

The slope of the line is

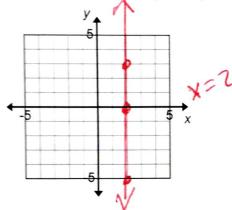
The line is horizontal / yertical. (circle one)

Write 3 points that will be on the line, and then graph the line from the points.



Write 3 points that will be on the line, and then graph the line from the points.

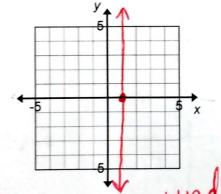
(2,-5) (2,3) (2,0)



The slope of the line is______

The line is horizontal (vertical. (circle one)

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,) (,) (,)

The slope of the line is

The line is horizontal (vertical (circle one)

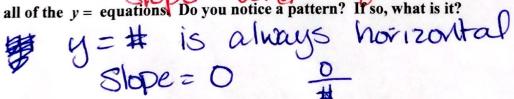
The slope of the line is

The line is horizontal / vertical. (circle one)

Make a conjecture!

Look at all of the x = equations. Do you notice a pattern? If so, what is it?

Look at all of the y = equations Do you notice a pattern? It so, what is it?



HORIZONTAL LINES:

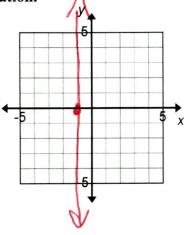
hits the y-axis hits the x-axis

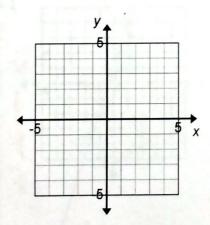
VERTICAL LINES:

X = #

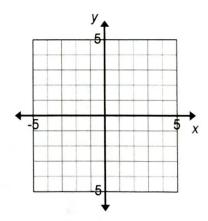
Now that you know the pattern, you can use it as a shortcut.

Graph each equation.





10. x = -3



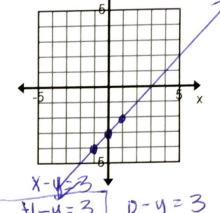
Create the following tables and graph each equation. Identify the slope for each equation.

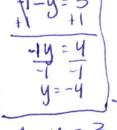
11.
$$y = 2x$$

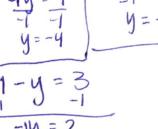
x	y
-1	2(-1)
0	2(0)
1	2(1) 2
4	2(4) 8
2.5	2(2.5) 5

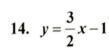
13.
$$x - y = 3$$

x	у
-1	-4
0	-3
	-2
2	

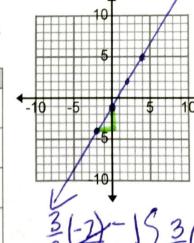






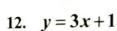


y
-4
-
2
5









x	y
-1	*1)+1 -3+1
0	3(0)+1
1	3(1)+1
2	3+1 3(2)+1 6+1