

Warm up

Find three ordered pairs that are solutions of the equation.

$$y = 2x - 6$$

$$2(-1) - 6$$

$$-2 - 6$$

x	y
-1	-8
0	-6
1	-4

$$2(0) - 6$$

$$0 - 6$$

$$2(1) - 6$$

$$2 - 6$$

$$-2x + 3y = 9$$

$$+2x \quad +2x$$

$$\frac{3y}{3} = \frac{9+2x}{3}$$

$$y = \frac{9+2x}{3}$$

x	y
-3	1
0	3
3	5

$$\frac{9+2(-3)}{3}$$

$$\frac{9-6}{3}$$

$$\frac{3}{3}$$

$$= 1$$

$$\frac{9+2(3)}{3}$$

$$\frac{9+6}{3}$$

$$\frac{15}{3}$$

$$= 5$$

$$\frac{9+2(0)}{3}$$

$$\frac{9}{3}$$

$$= 3$$

Finish Quiz 4.1-4.2

When Done... Make sure your hw from last night is done (4.2 wkst #~~25-32~~ 30-33)

4.3 Graphing Horizontal and Vertical Lines

Goals: • Graph horizontal and vertical lines.

EQ: What is the difference between a horizontal and vertical line?

horizontal vs. vertical?

The Unit Organizer NAME _____
DATE _____ Mo/Date/Year

← Algebra 1.5 →

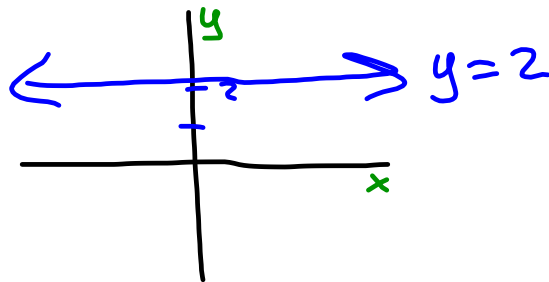
② LAST UNIT/Experience Solving Linear Equations	① CURRENT UNIT Graphing Linear Equations & Functions	③ NEXT UNIT/Experience Writing Linear Equations
⑧ Student Activities or Assignments 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8	⑤ UNIT MAP 	
⑦ UNIT SELF-TEST QUESTIONS 1. How do you use a table to graph a line? 2. How do I find the intercepts in order to graph a line? 3. How can I calculate the slope with coordinates, or a graph, or a real world situation? 4. How do I write and solve a direct variation model? 5. How can I graph a line using the slope and y-intercept? 6. How can I determine a function and then evaluate it?	Graph Determine Identify Calculate	⑨ UNIT RELATIONSHIPS

Vocabulary

Constant function:

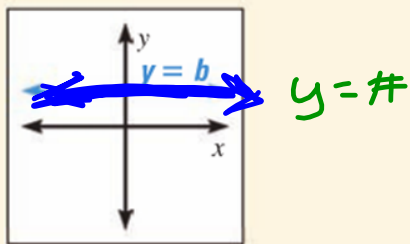
$$y = \#$$

(Horizontal Line)

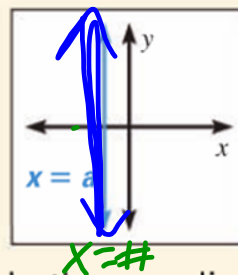


SUMMARY

Equations of Horizontal and Vertical Lines



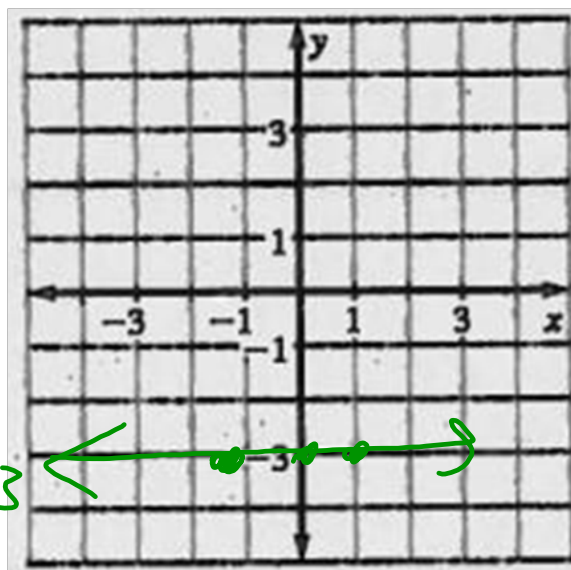
In the coordinate plane,
the graph of $y = b$ is a
horizontal line.



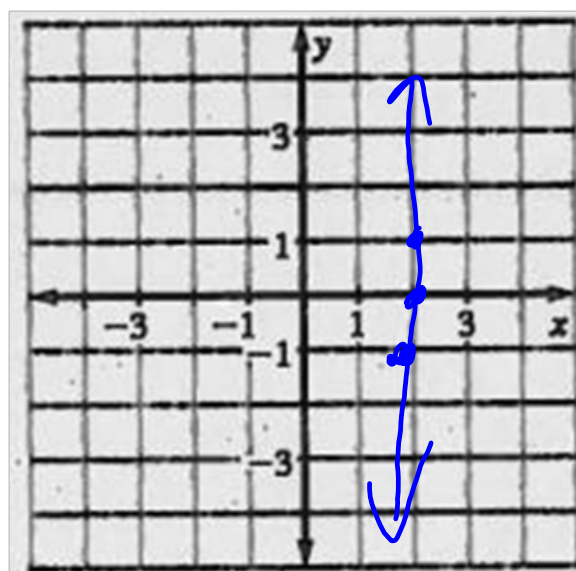
In the coordinate plane,
the graph of $x = a$ is a
vertical line.

Example 1: Graph the Equation $y = b$ Graph the equation $y = -3$.

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

 $y = -3$ **Example 2: Graph the Equation $x = a$** Graph the equation $x = 2$.

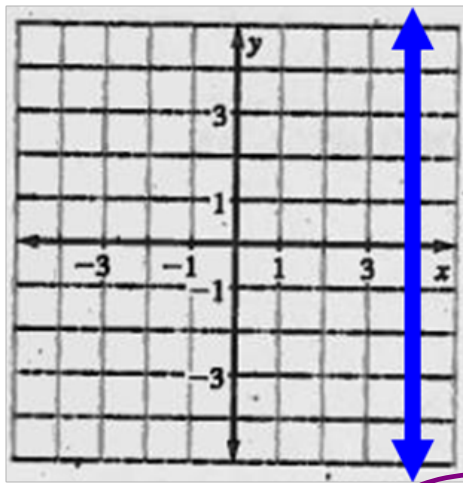
x	y
2	-1
2	0
2	1

 $x = 2$

Example 3: Write an Equation of a Line

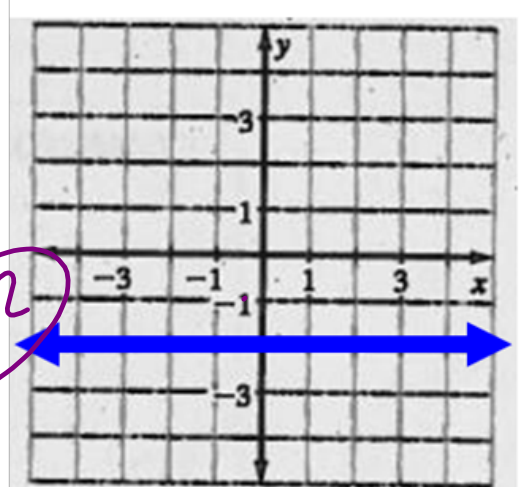
Write the equation of the line in the graph.

a.



$$x = 4$$

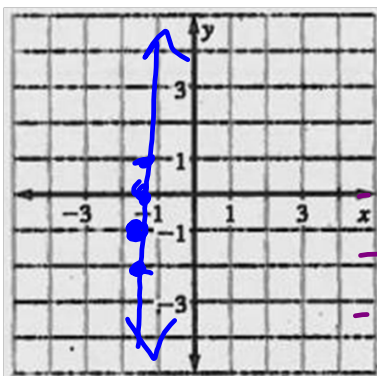
b.



$$y = -2$$

Try It Complete the following exercises.1. Graph the equation $x = -\frac{3}{2}$.

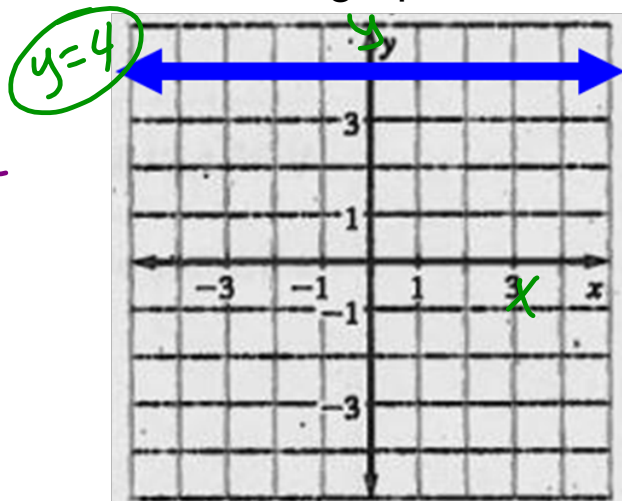
$$x = -1.5$$



$$x = -\frac{3}{2}$$

x	y
-1.5	-1
-1.5	0
-1.5	1

2. Write the equation of the line in the graph.



$$y = 4$$

Graphing Vertical and Horizontal Lines

Summary

EQ: What is the difference between a horizontal and vertical line?

4.3 Homework

Graphing by Making Tables wkst