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

$\frac{9+2(-3)}{3} = \frac{3}{3} = 1$

$\frac{9+2(6)}{3} = \frac{15}{3}$

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

Finish Quiz 4.1-4.2

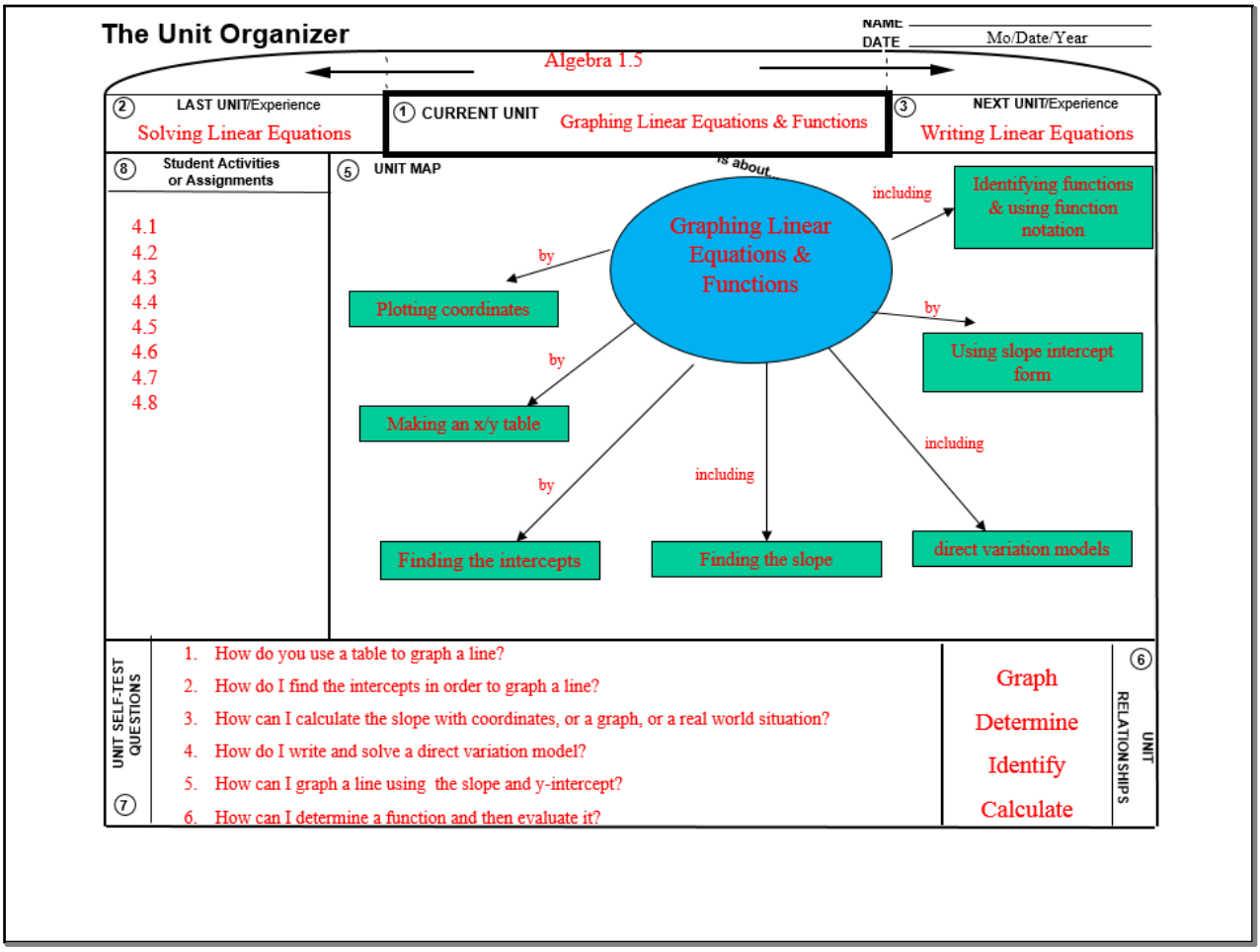
When Done... Make sure your hw from last night is done (4.2 wkst #~~25-33~~ 30-33)

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?

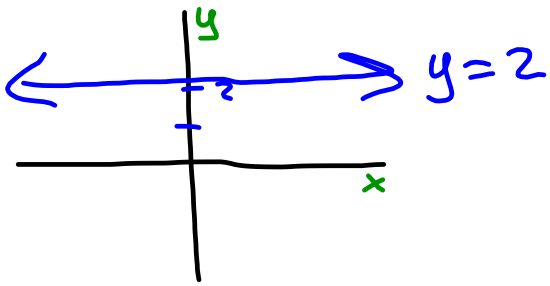


Vocabulary

Constant function:

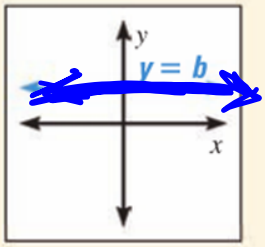
$y = \#$

(Horizontal Line)



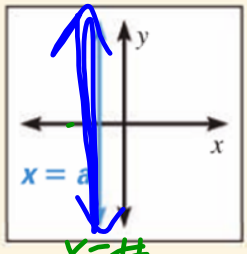
SUMMARY

Equations of Horizontal and Vertical Lines



$y = \#$

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

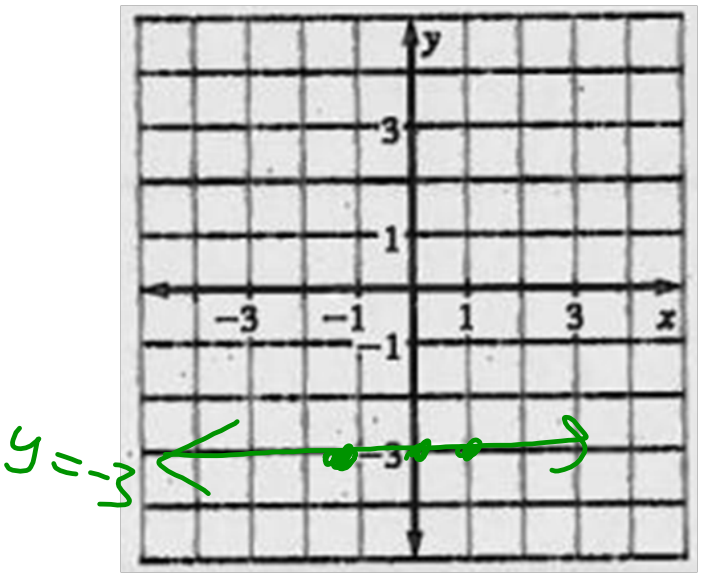


In the coordinate plane, the graph of $x = a$ is a vertical line.

Example 1: Graph the Equation y = b

Graph the equation y = -3.

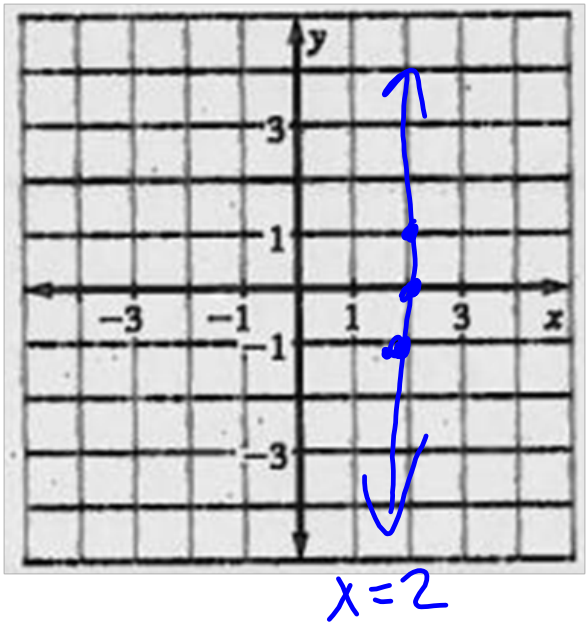
x	y
-1	-3
0	-3
1	-3



Example 2: Graph the Equation x = a

Graph the equation x = 2.

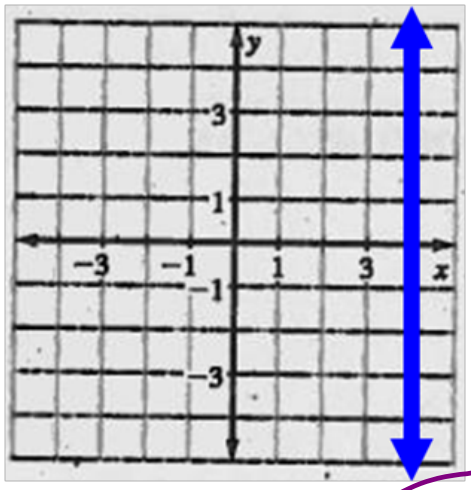
x	y
2	-1
2	0
2	1



Example 3: Write an Equation of a Line

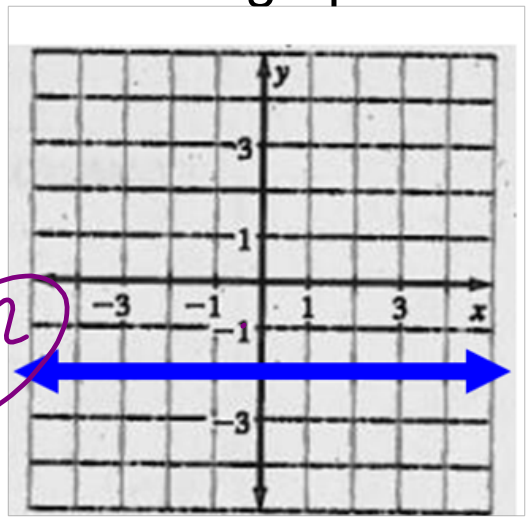
Write the equation of the line in the graph.

a.



x = 4

b.

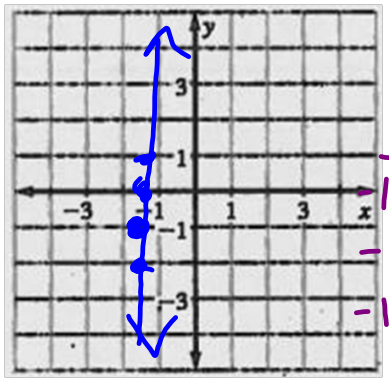


y = −2

Try It Complete the following exercises.

1. Graph the equation $x = -\frac{3}{2}$.

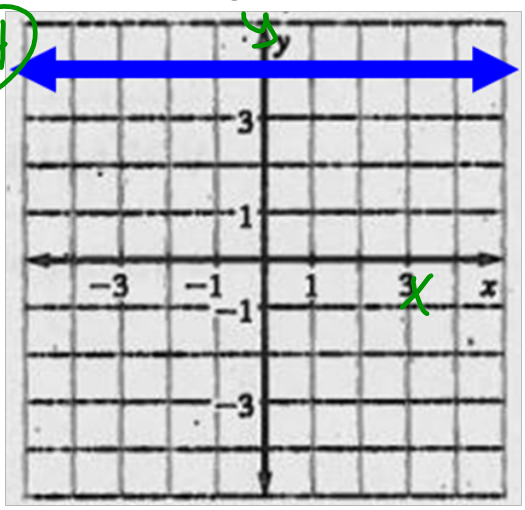
x = −1.5



x	y
−1.5	−1
−1.5	0
−1.5	1

x = −3/2

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