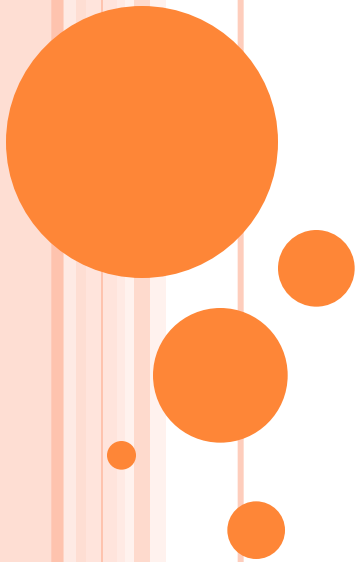


GRAPHING LINEAR EQUATIONS

Chapter 4
Section 2



GRAPHING LINEAR EQUATIONS

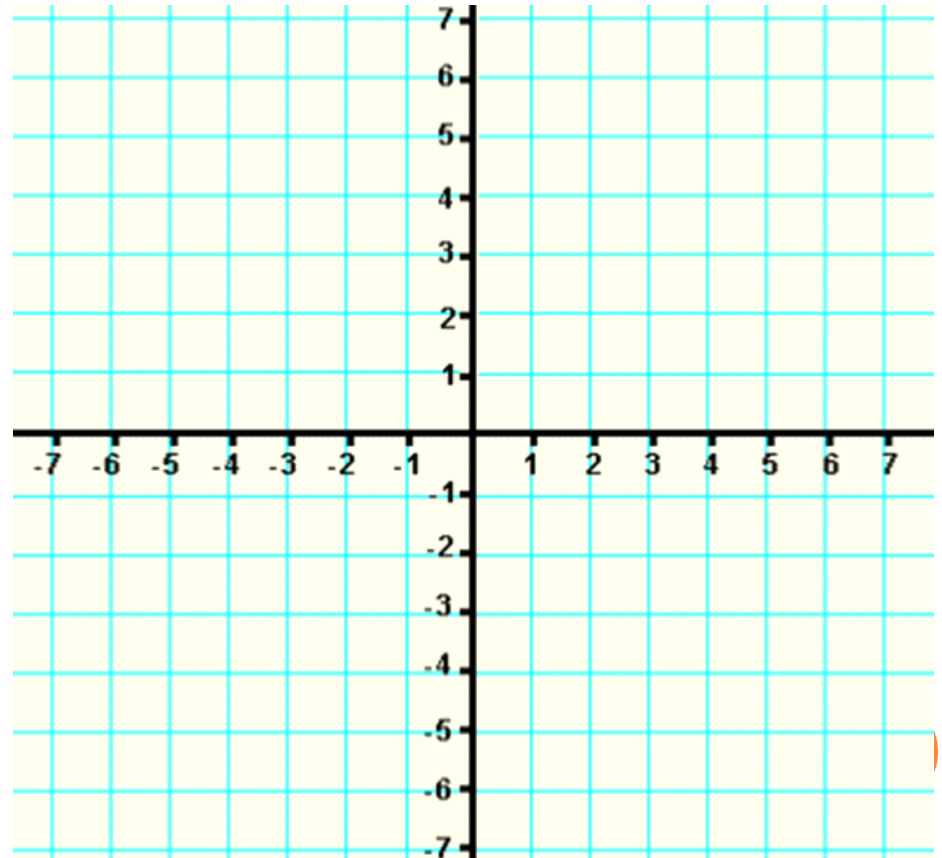
- Steps to Graphing Linear Equations:
 - 1. Rewrite the equation in function form (solve for y)
 - 2. Draw an x - y table
 - 3. Find what y is when $x = -2, -1, 0, 1, 2$
 - 4. Rewrite the x and y values into ordered pairs
 - 5. Plot the ordered pairs on the graph



GRAPHING LINEAR EQUATIONS: EXAMPLE

$$y=2x+1$$

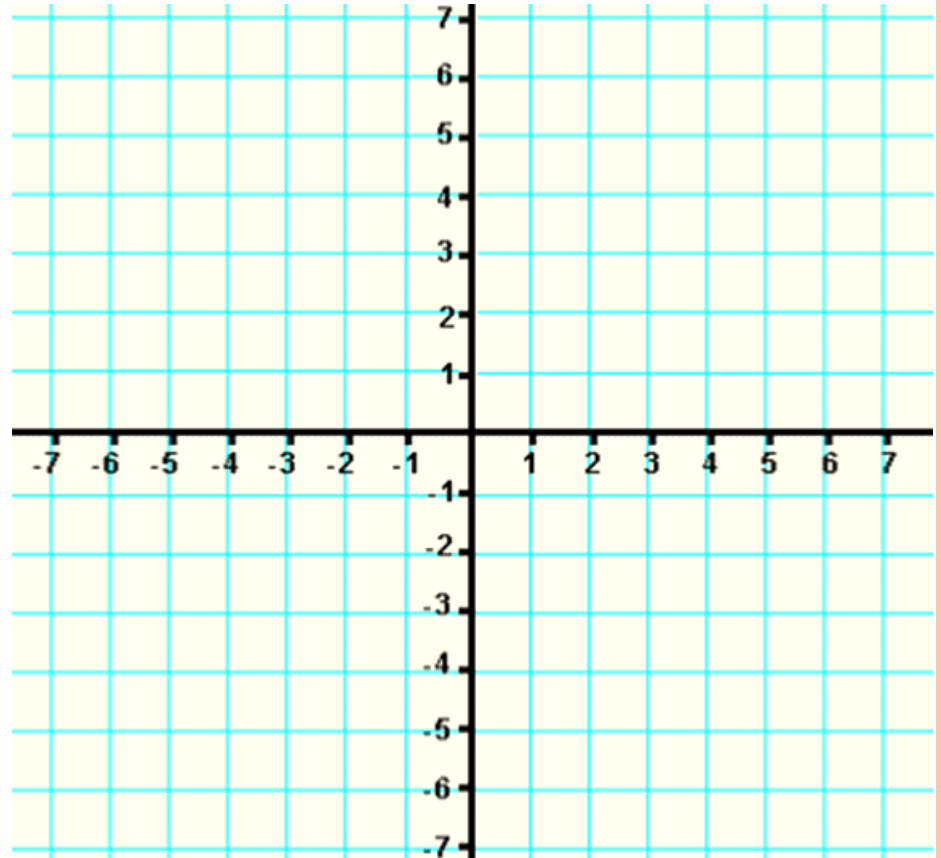
Input X	Output Y	Work
-2		
-1		
0		
1		
2		



GRAPHING LINEAR EQUATIONS: EXAMPLE

$$y = -3x + 2$$

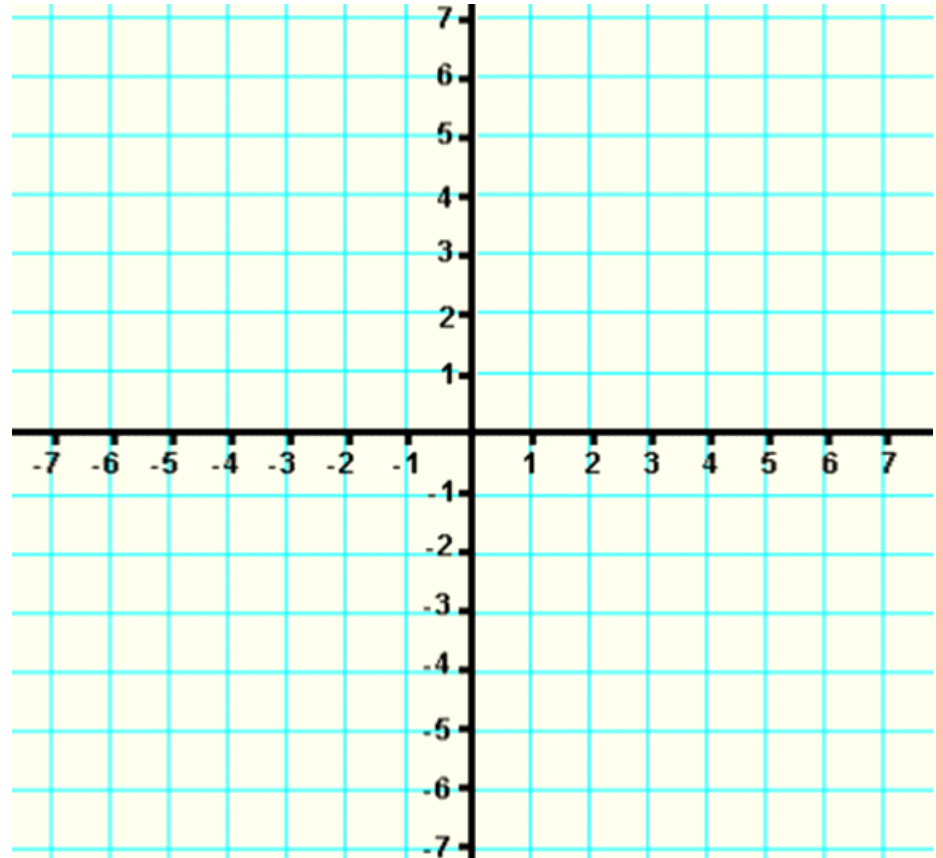
Input X	Output Y	Work
-2		
-1		
0		
1		
2		



GRAPHING LINEAR EQUATIONS: EXAMPLE

$$-8x + 4y = -12$$

Input X	Output Y	Work
-2		
-1		
0		
1		
2		



HORIZONTAL LINES

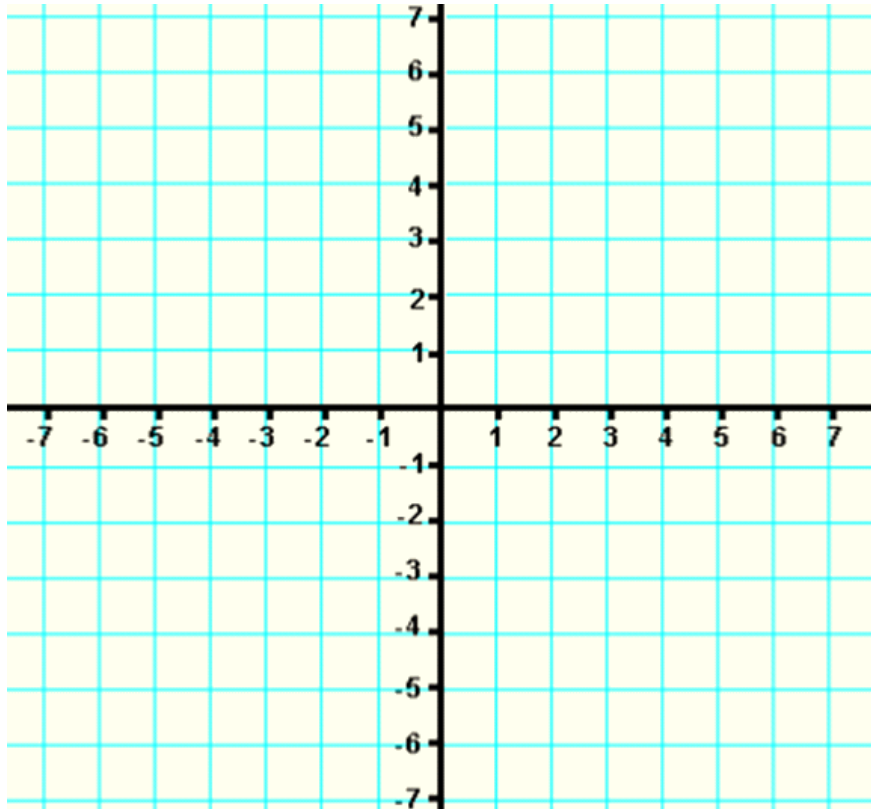
- An equation is a horizontal line if it does not have an x variable. (only has a y variable)

- Example:
 - $y=2$
 - $y=-1$
 - $y=5$
 - $y=0$

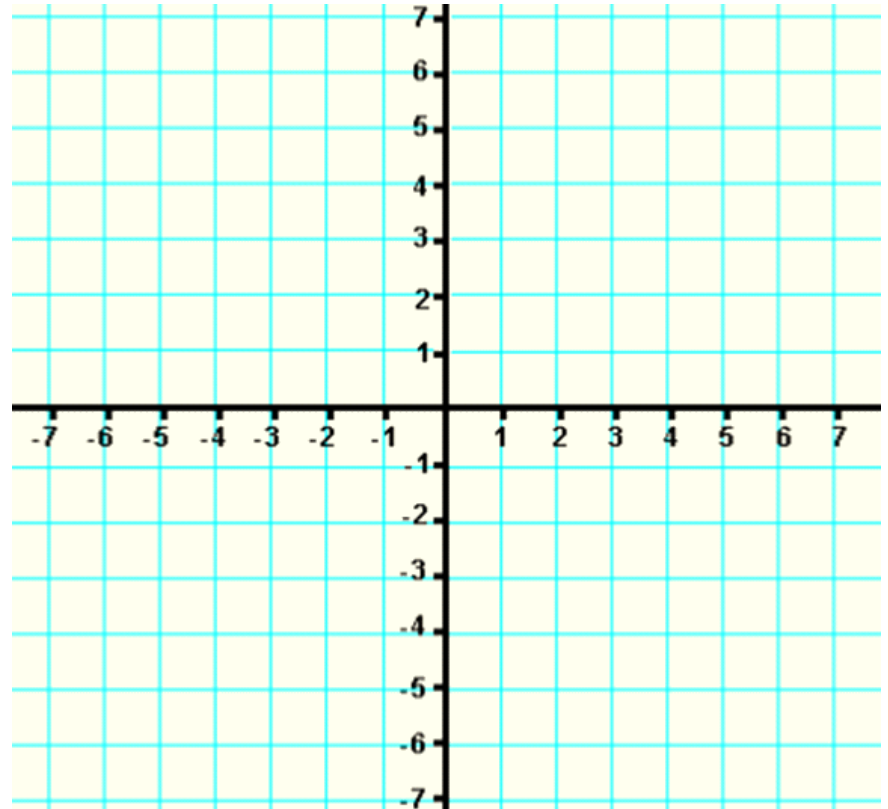


HORIZONTAL LINES

$$y = -2$$



$$y = 5$$



VERTICAL LINES

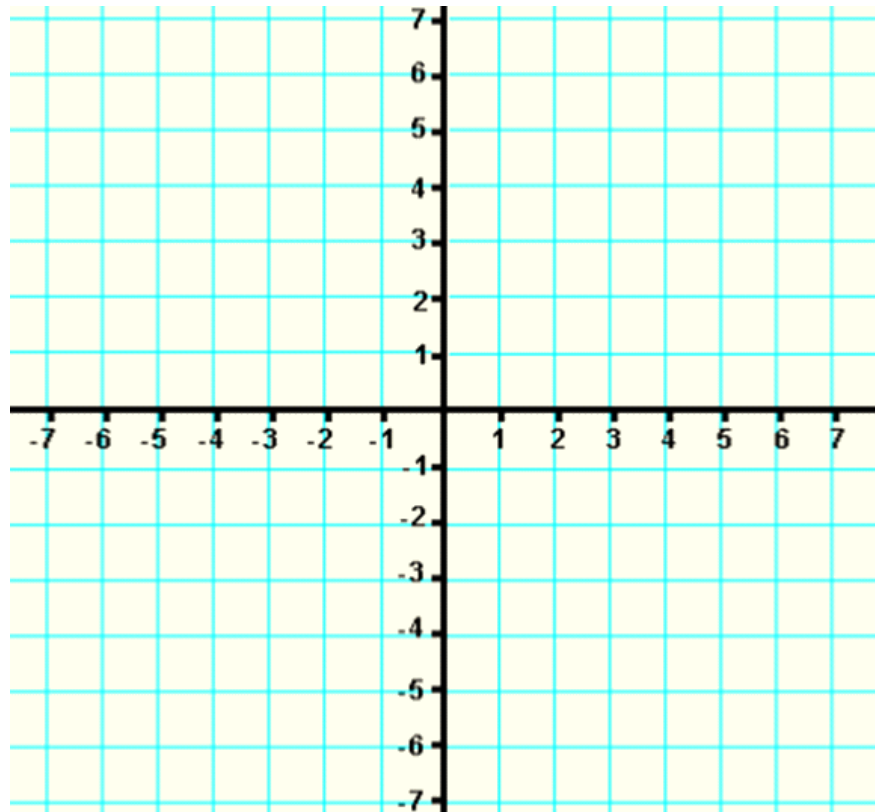
- An equation is a vertical line if it does not have a y variable (only has an x variable)

- Example:
 - $x=2$
 - $x=-1$
 - $x=5$
 - $x=0$

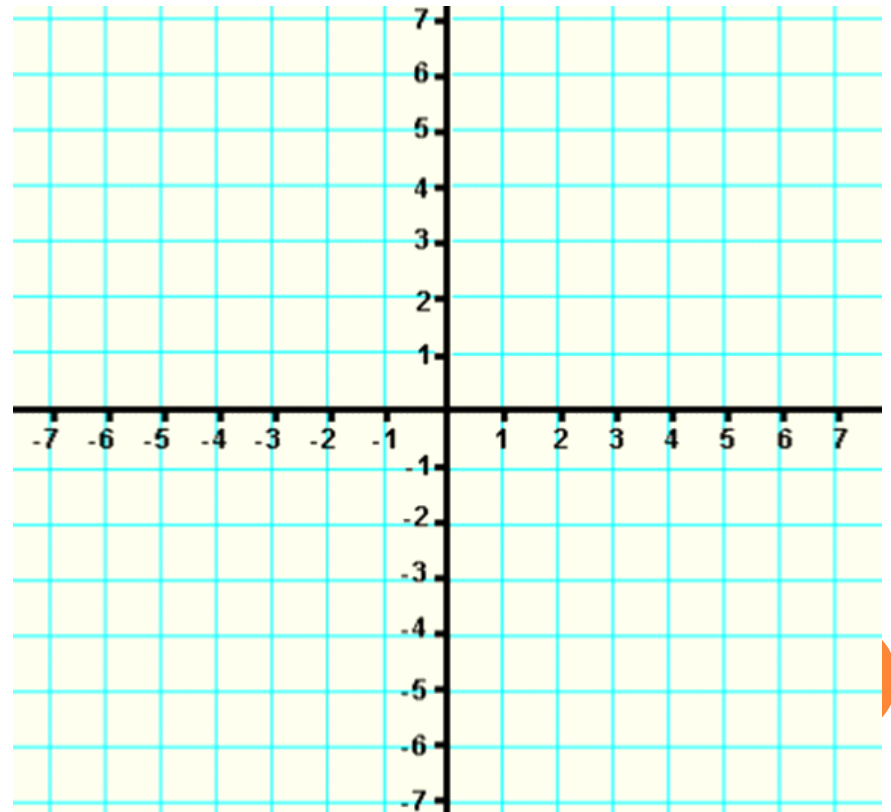


VERTICAL LINES

$$x = -4$$



$$x = 7$$



CLASS WORK

- Worksheet



HOMEWORK

- Page 214 #12, 13, 15, 16, 32- 34, 36, 37, 40, 44, 45

