

Warm Up-

Write down some of the things you remember about lines

- Straight

-used for graphs

- They go on forever

- linear

- they're different sizes

- on pavement

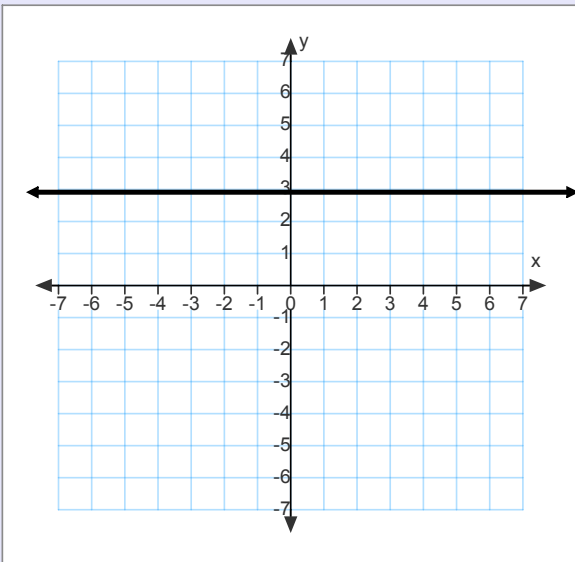
What are the most common variables that we use in math?

\underline{x} and \underline{y}

$$y=4 \quad x=-1$$

Anytime we have y equal to a number or x equal to a number, we are given a function which can be represented as a line

Ex 1: $y = 3$

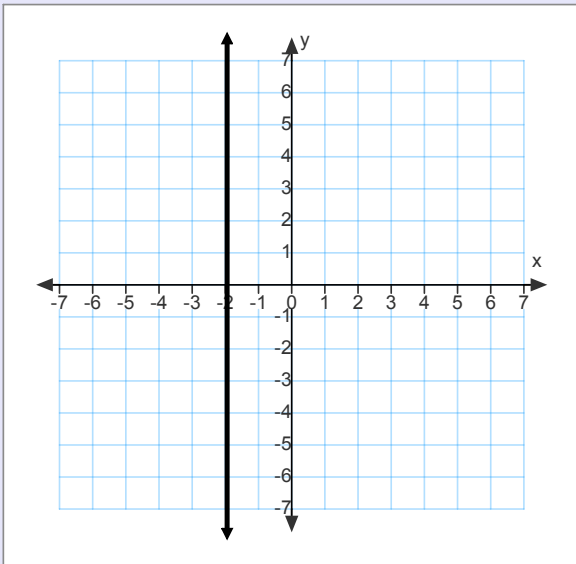


Horizontal

or

Vertical

Ex 1: $x = -2$



Horizontal

or

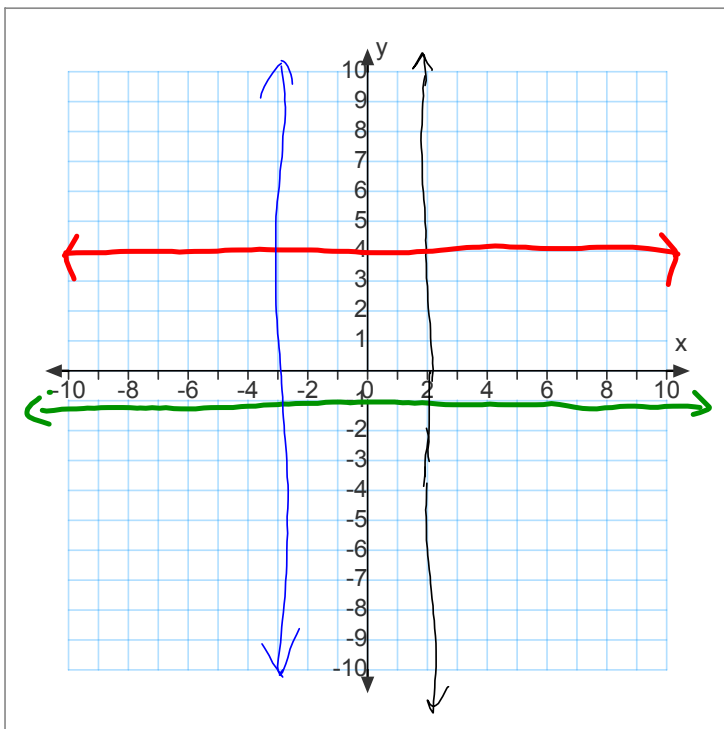
Vertical

If I am graphing a line that starts with $y =$ then I will graph a horizontal line.

If I am graphing a line that starts with $x =$ then I will graph a vertical line.

Directions-

On the Worksheet, Graph the functions and determine whether each graph is horizontal or vertical.

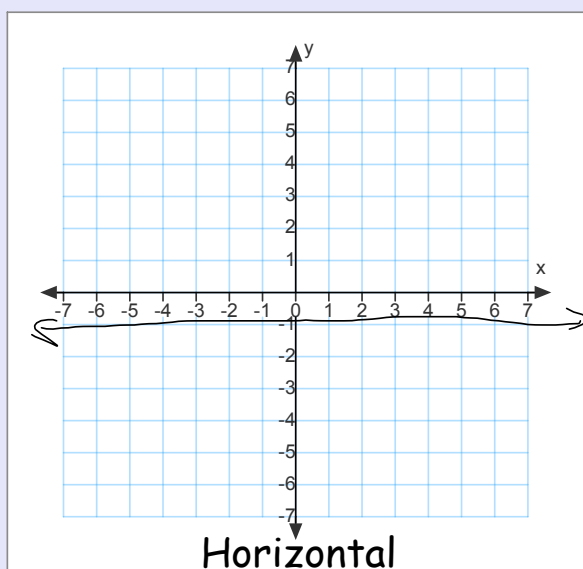


SLOPE

Slope- The rate of change of a line

Rate of Change-By how much is a line increasing or decreasing

Ex 1: $y = -1$



or

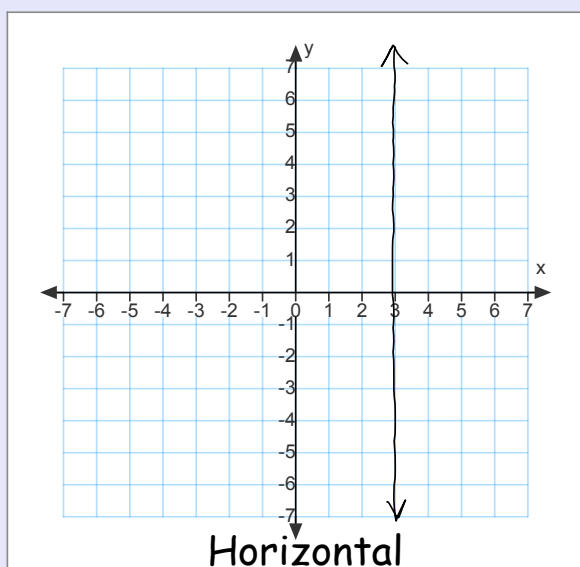
Vertical

By how much is the line
increasing or decreasing?

Not increasing
or decreasing

So we say its slope is 0.

$$\text{Ex 1: } x = 3$$



or

Vertical

By how much is the line increasing or decreasing?

So we say its slope is und.

und means undefined.

Directions-

For each graph write down the slope for each.

1. und

2. 0

3. 0

4. und

5. und

6. 0

2 lines slope = 0

1 line slope = und

