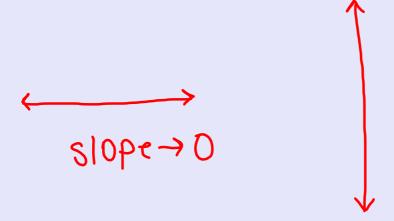
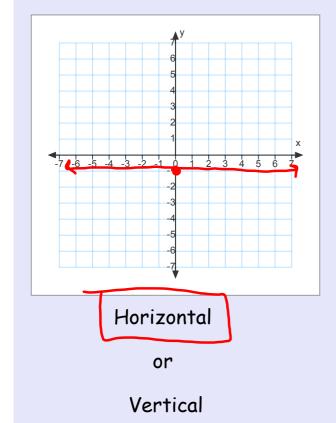


Slope- The rate of change of a line

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



Ex 1: y = -1

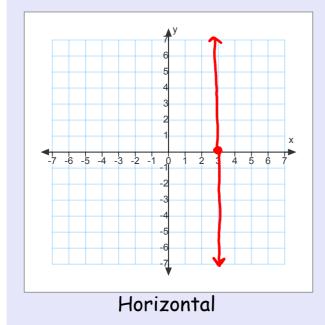


By how much is the line increasing or decreasing?

its not

So we say its slope is ______.

Ex 2: x = 3



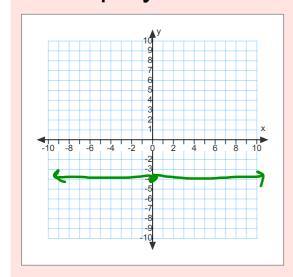
increasing or decreasing?

By how much is the line

So we say its slope is Und.

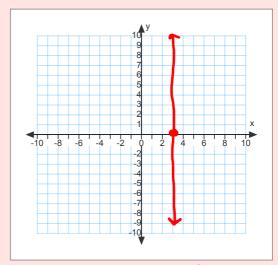
und means undefined

or Vertical 1. Graph y = -4



Slope = ______

2. Graph x = 3



Slope = und

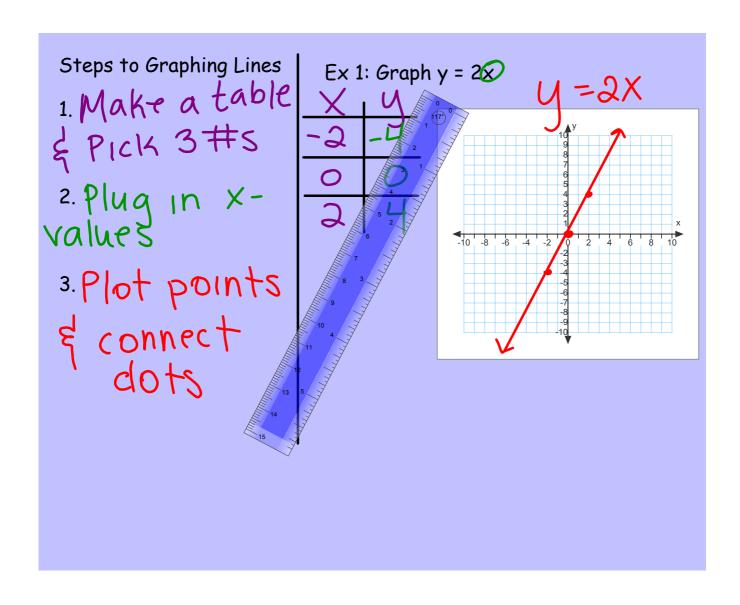
3. The Rate of Change describes the slope of a line. What did we define Rate of Change to be?

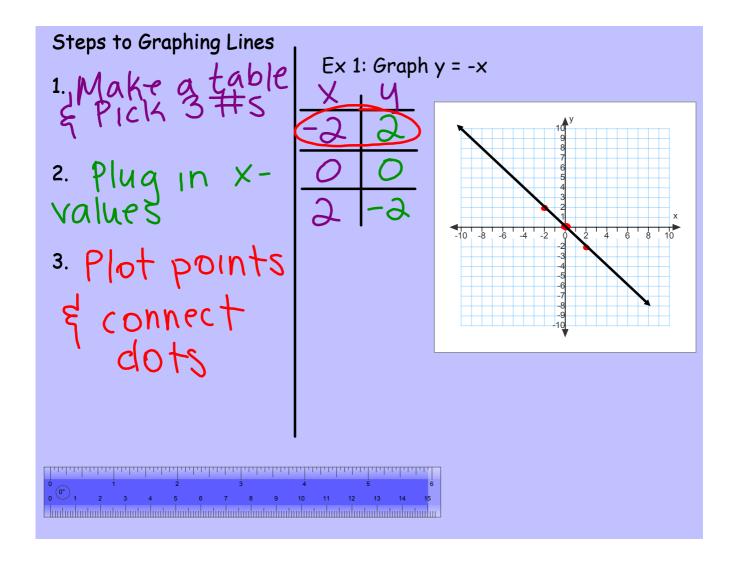
- a. A Nor Izontofine has slope equal to _____.
- b. A vertical line has slope equal tound.

Can lines have slope of anything other than zero or undefined?

When we add another variable to an equation, we will get a line with a slope other than zero or undefined.

Examples:



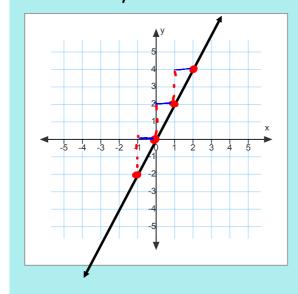


The number in front of the x in the equation is represented by the variable $\underline{\mathcal{M}}$.

We have talked about slope being the <u>(atc</u> of <u>change</u>).

Another way we define slope is:

The line y=2x looks like:



risc 2 run The rise is the vertical change from point to point.

The run is the horizontal change from point to point.

run= |

If the rise is ____ and the run is ____ then the slope is ____.

Examples to try on your own.

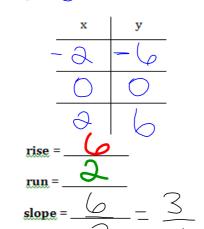
For each equation, please

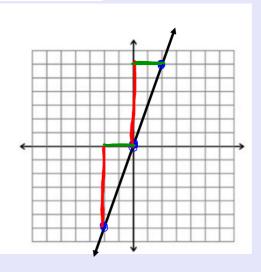
1. Make a table

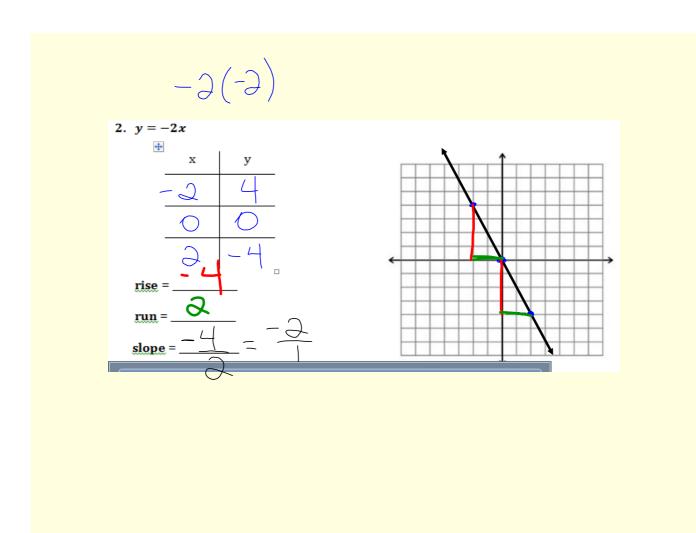
- 2. Plot the points
- 3. Graph the line
- 4. Find the rise and the run
- 5. Tell me the slope



y = 3(-2)







Homework!

Complete Problems 3-8