Agenda

Homework:

- AM
- Slope: Graphs & Tables WS

Materials:

- Notebook
- Calculator (if needed)

DO NOW:

- Take out homework
- Solve the following on your desk:
- 1. What type of slope (positive, negative, zero, undefined) does the following line have?
- 2. Solve for x:

$$4x + 1 = 2x + 15$$

Do Now

1. What type of slope (positive, negative, zero, undefined) does the following line have?

2. 4x + 1 = 2x + 15

Set up Cornell Notes

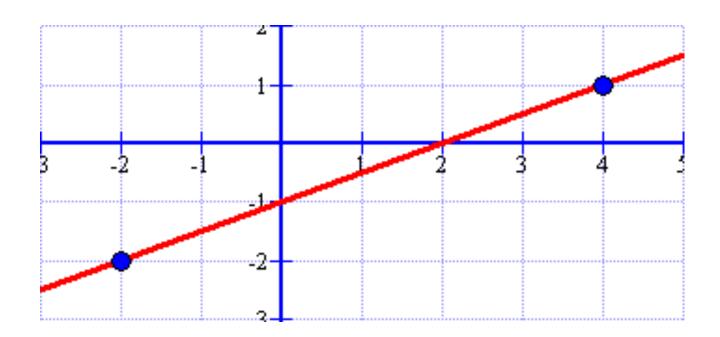
Topic: Slope – Graph & Tables

EQ: How do you calculate slope given a graph?
How do you calculate slope given a table?

Update Table of Contents:

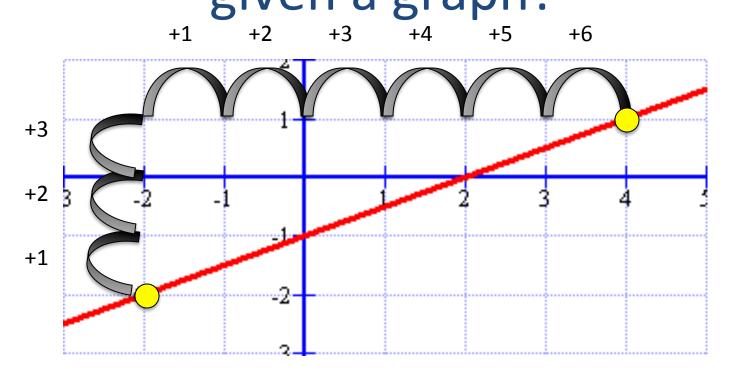
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How do you find the slope when given a graph?



When given the **graph**, we use the formula "rise over run"

How do you find the slope when given a graph?



$$\frac{rise}{run} = \frac{+3}{+6} = \frac{1}{2}$$

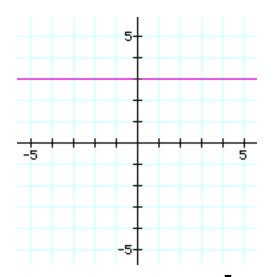
How do you determine if rise/run is positive or negative?



$$m = \frac{rise}{run} = \frac{3}{-2} = \frac{move up 3}{move left 2}$$

	Positive	Negative
RISE	Move UP	Move DOWN
RUN	Move RIGHT	Move LEFT

What is the slope of a horizontal line?



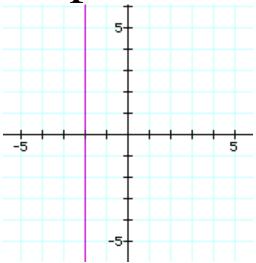
The line doesn't rise!

$$m = \frac{0}{number} = 0$$

All horizontal lines have a slope of 0.

What is the slope of a vertical line?





The line doesn't run!

$$m = \frac{number}{0} = undefined$$

All vertical lines have an undefined slope.

Practice (left page of notes)

How do you find the slope given a table?



When given a table, use the formula,

change in y			
change in x	X	y	
-1	2	5	1
+2	4	4	-1
	6	3	

When is a fraction positive/negative?

 Positive: Numerator and denominator have the SAME sign

Negative: Numerator and denominator have DIFFERENT signs