Agenda

- Homework:
 - Finding Slope fromTwo Points WS
 - -AM

- Materials
 - Calculator
 - Notebook

- DO NOW:
 - Take out homework
 - On your DESK:
 - 1) Find the rate of change

X	y
-2	4
0	3
2	2

2) Simplify: $(3x^2)^4$

Do Now

1. Find the rate of change

X	y
-2	4
0	3
2	2

2. Simplify: $(3x^2)^4$



Set up Cornell Notes

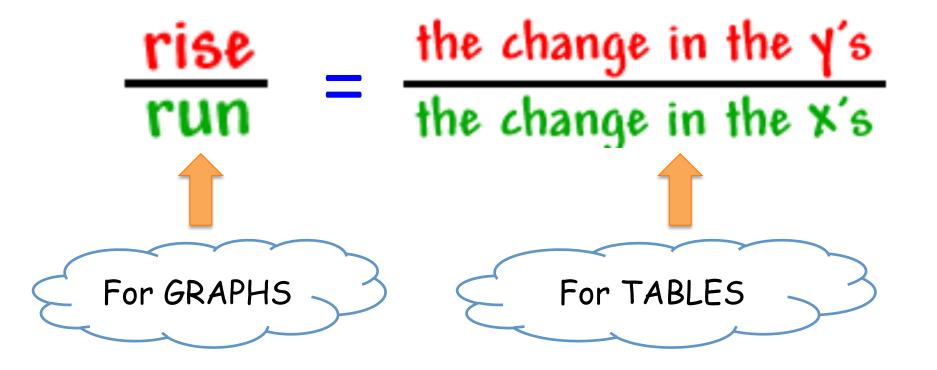
Topic: Slope from Two Points

Essential Question: How do you find slope from two points?

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How have we found slope so far?

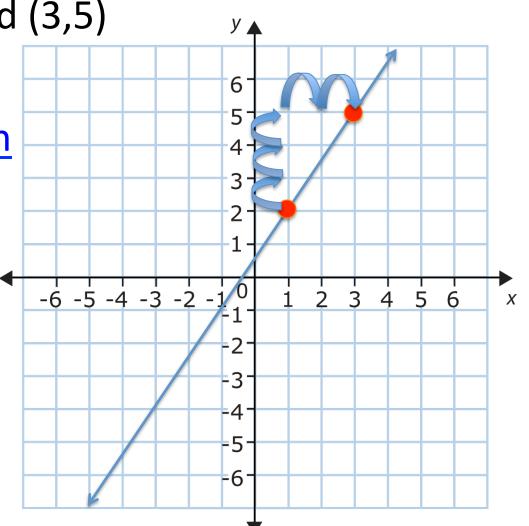


How do you find slope given 2 points on a line?

• Example: (1, 2) and (3,5)

We could use a graph

- 1) Plot the points
- 2) Use rise/run



How do you find slope given 2 points on a line?

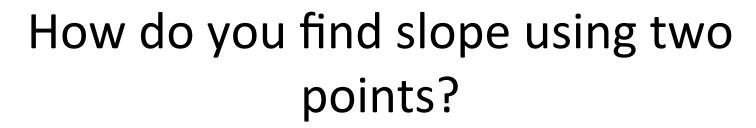
• Example: (1, 2) and (3,5)

We could use a table

- 1) Fill in the table
- 2) Use change in y/change in x

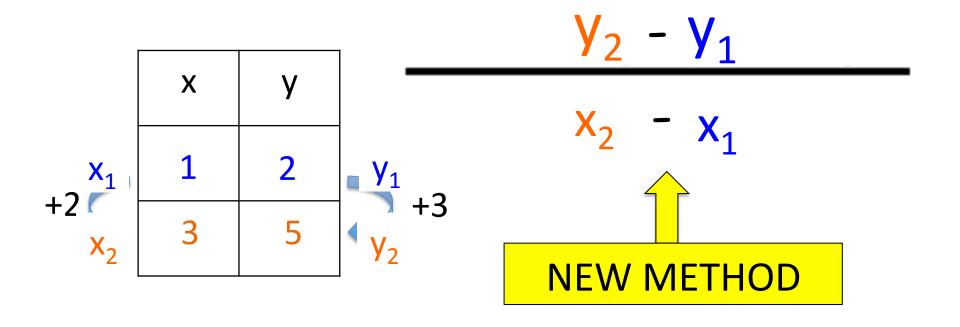
the	change	in	the	y's		+3
the	change	in	the	X's	_	+2

	X	У	
+2	1	2	
	3	5	+3





 Let's use what we know about finding slope from tables:

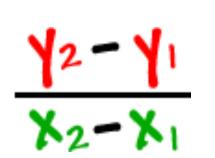


How can we use our new method to find the slope between the points (1, 2) and (3, 5)?

$$\begin{bmatrix} 1 & 2 \end{bmatrix}$$
 and $\begin{bmatrix} 3 & 5 \\ x_1 & y_1 & x_2 & y_2 \end{bmatrix}$

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{3}{2}$$

When should you use



- When given two points
- Example: Find the slope between the points (-3, 4.3) and (21, 16.3)
 X₁ Y₁ X₂ Y₂

$$\frac{16.3 - 4.3}{21 + 3} = \frac{12}{24} = \frac{1}{2}$$