

Graphic Organizer:

Slope

Graphic Organizer
Slope

Name: _____

Slope

Definition:

$\frac{\text{rise}}{\text{run}}$

Change in
Change in

Slope Formula:

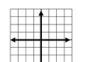
Find the slope between the 2 points:

A) (2, 8) & (4, 7)

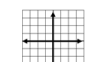
B) (1, 3) & (-2, 9)

Types of Slopes

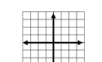
Positive:



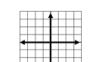
Negative:



Zero:



Undefined:



Graphic Organizer
Slope

Slope

Definition:
Slope is the steepness of a line

$\frac{\text{rise}}{\text{run}}$

Change in y
Change in x

Slope Formula
Given 2 points
(x_1, y_1) and (x_2, y_2)

$$\frac{y_2 - y_1}{x_2 - x_1}$$

Using Slope to Write Linear Equations

Slope - Intercept Form:

$$y = mx + b$$

m = slope
 b = y -intercept


Point-Slope Form:

$$y - y_1 = m(x - x_1)$$


m = slope of the line
(x, y) = a point on the line

Types of Slopes


Positive:
Rises to the right




Negative:
Falls to the right



Zero:
Horizontal Line
 $y = a$ number



Undefined:
Vertical Line
 $x = a$ number



Find the slope between the 2 points:
(x_1, y_1) (x_2, y_2)

A) (2, 8) & (4, 7)

$$\frac{7 - 8}{4 - 2} = \frac{-1}{2}$$

B) (1, 3) & (-2, 9)

$$\frac{9 - 3}{-2 - 1} = \frac{6}{-3} = -2$$

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Information:

This is a graphic organizer on slope. Included on the organizer are the definition for slope, types of slope, slope formula, and an intro to writing linear equations. This graphic organizer can easily be stuck in a students binder, or glued into a notebook!
Answer key with suggestions for filling in each section is included.

If you have any questions, comments, and/or suggestions, please contact me via the Q&A section on TpT or email me at:
4theLoveofMath2@gmail.com

Thank you!

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Graphic Organizer

Slope

Name: _____

Slope

Definition:

$$\frac{\text{rise}}{\text{run}}$$

$$\frac{\text{Change in } \underline{\hspace{2cm}}}{\text{Change in } \underline{\hspace{2cm}}}$$

Slope Formula:

Using Slope to Write Linear Equations

Slope - Intercept Form:

Types of Slopes

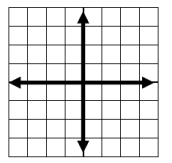
Find the slope between the 2 points:

A) (2, 8) & (4, 7)

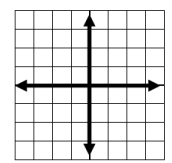
B) (1, 3) & (-2, 9)

Point-Slope Form:

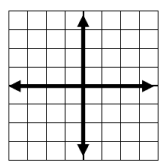
Positive:



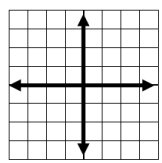
Negative:



Zero:



Undefined:



Graphic Organizer

Slope

ANSWER KEY

Slope

Definition:
Slope is the steepness of a line

$$\frac{\text{rise}}{\text{run}}$$

$$\frac{\text{Change in } y}{\text{Change in } x}$$

Slope Formula
Given 2 points
 (x_1, y_1) and (x_2, y_2)

$$\frac{y_2 - y_1}{x_2 - x_1}$$

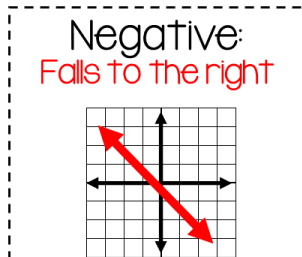
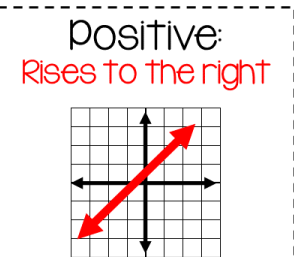
Using Slope to Write Linear Equations

Types of Slopes

Slope - Intercept form:

$$y = mx + b$$

$m = \text{slope}$
 $b = y\text{-intercept}$



Find the slope between the 2 points:
 (x_1, y_1) (x_2, y_2)

A) $(2, 8)$ & $(4, 7)$

$$\frac{7 - 8}{4 - 2} = \frac{-1}{2}$$

B) $(1, 3)$ & $(-2, 9)$

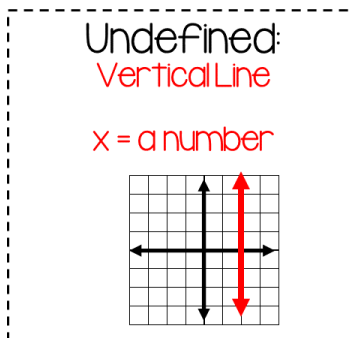
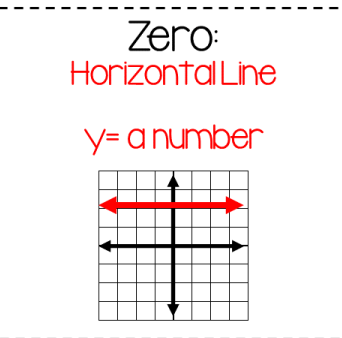
$$\frac{9 - 3}{-2 - 1} = \frac{6}{-3} = -2$$

Point-Slope Form:

$$y - y_1 = m(x - x_1)$$

$m = \text{slope of the line}$

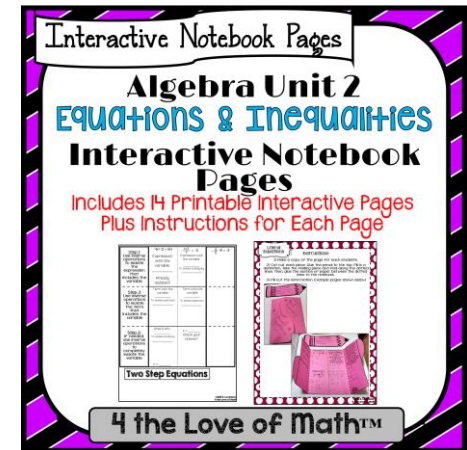
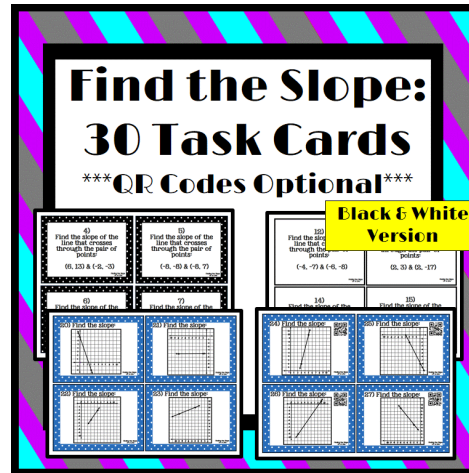
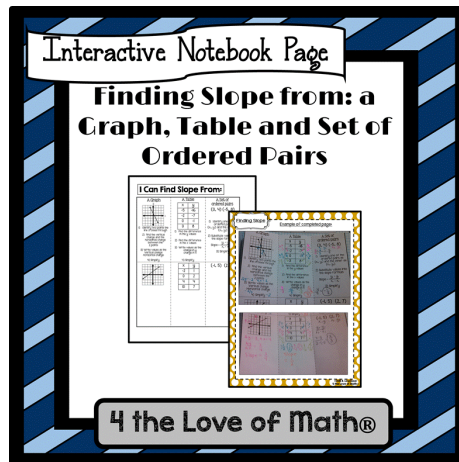
$(x_1, y_1) = \text{a point on the line}$





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