

Slope of a Line

Name _____

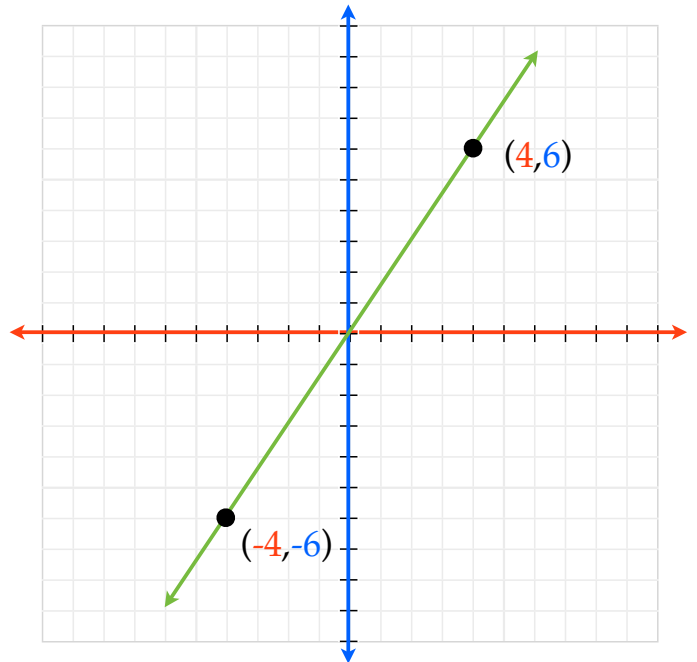
Date _____ Period _____

Slope of a Line
Rate of Change of the Line

$$\text{Slope of a Line} = \frac{\text{Vertical Change}}{\text{Horizontal Change}}$$

Vertical Change Horizontal Change

Slope of Line =

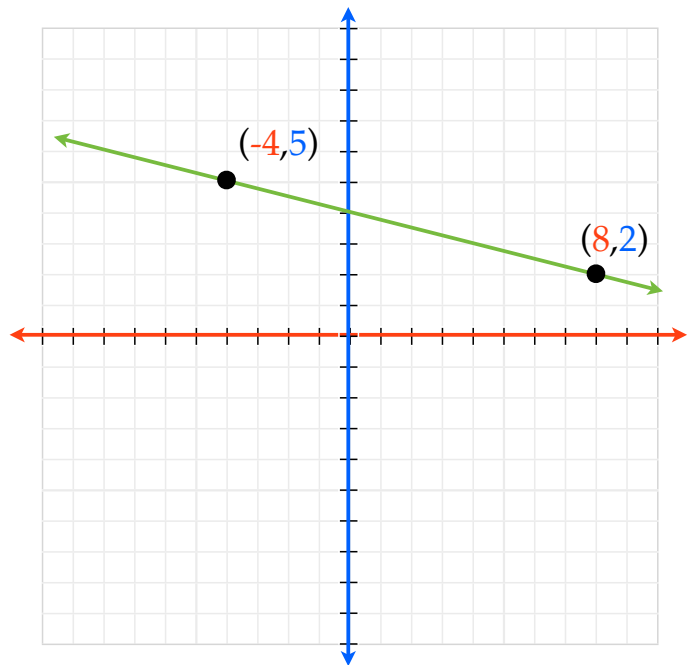


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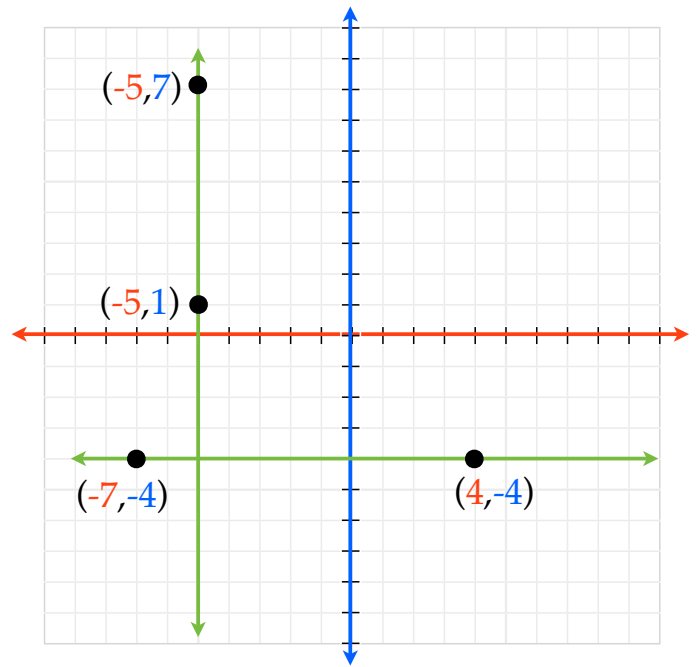


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Slope of Line =

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Slope of a Line
Rate of Change of the Line

Positive Slope

Moving upward from left to right

Negative slope

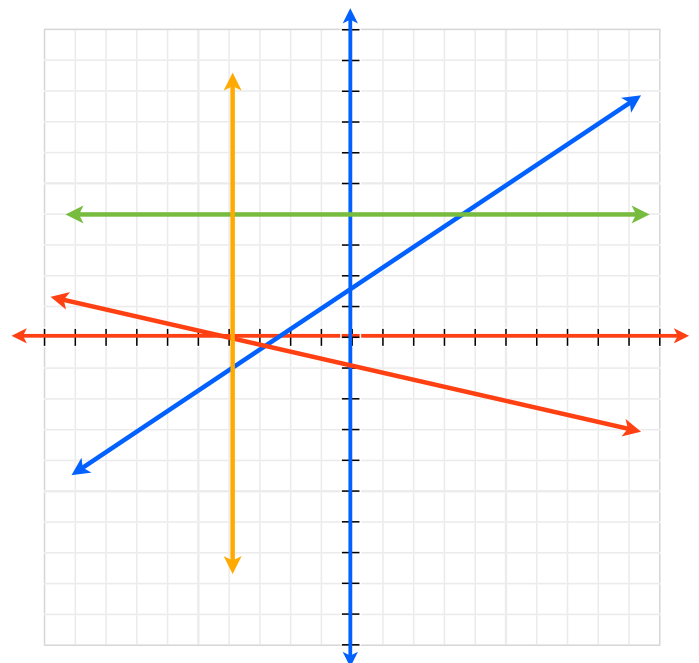
Moving downward from left to right

Zero slope

Horizontal line

Undefined slope

Vertical line



Slope of a line when given two points...

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\text{Vertical Change}}{\text{Horizontal Change}}$$

Find the slope of a line containing the following two points.

(-5,-1) and (5,4)

(4,6) and (-2,-4)

(1,-1) and (5,8)