

NAME: _____

Math _____, Period _____

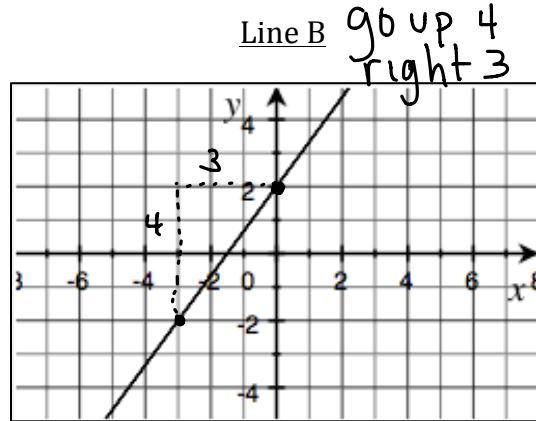
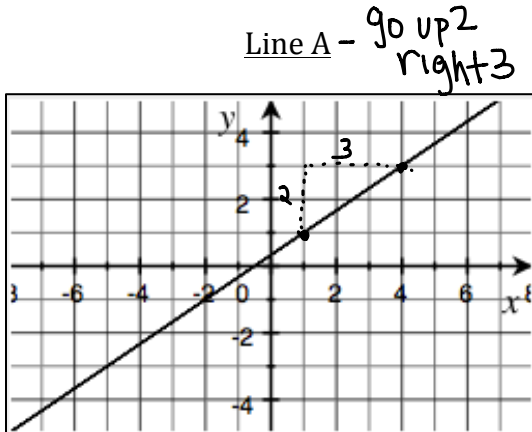
Mr. Rogove

Date: _____

LEARNING OBJECTIVE: We will explore the concept of slope and interpret it as a unit rate. (G8M4L14)

CONCEPT DEVELOPMENT:

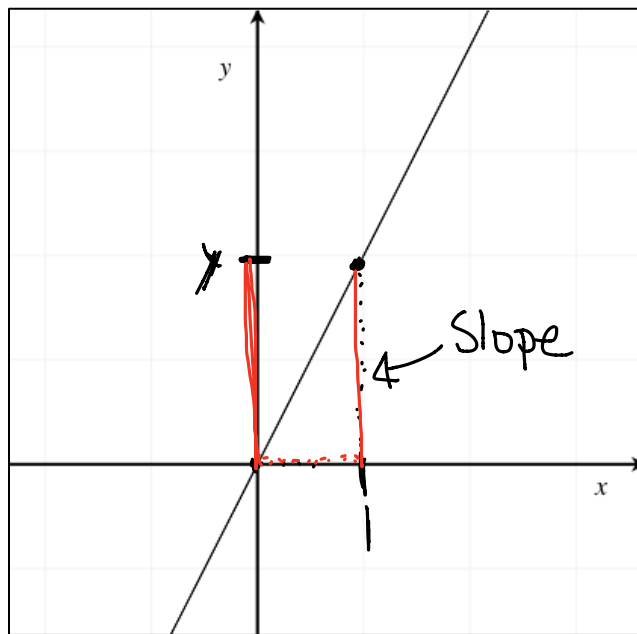
Which line is steeper?



Line B is steeper... closer to vertical than Line A } Line B is twice as steep as Line A

Slope: the measure of steepness or slant of a line. You can find the slope of a line by looking at the graph's unit rate.

Finding the unit rate of a graph:

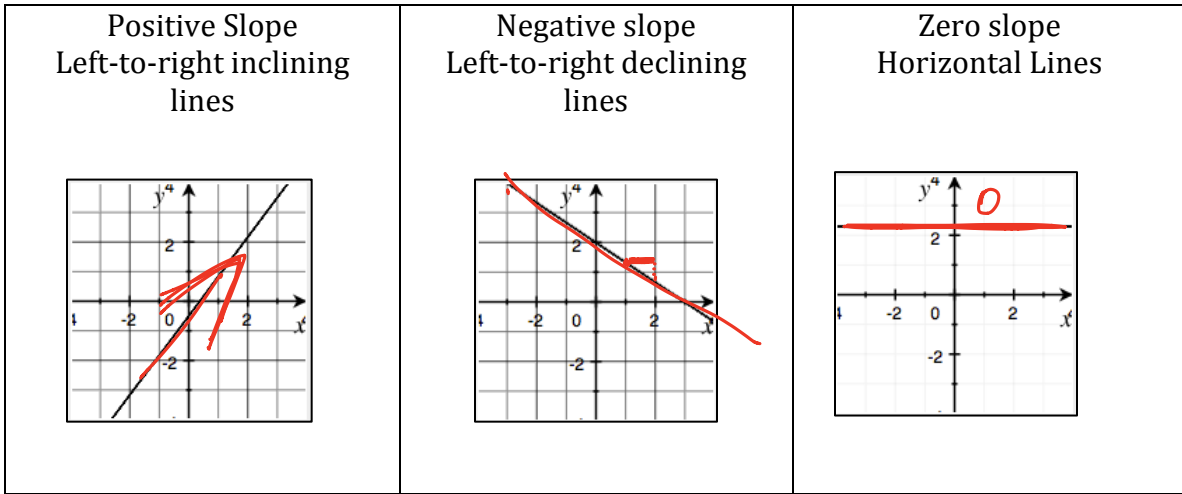


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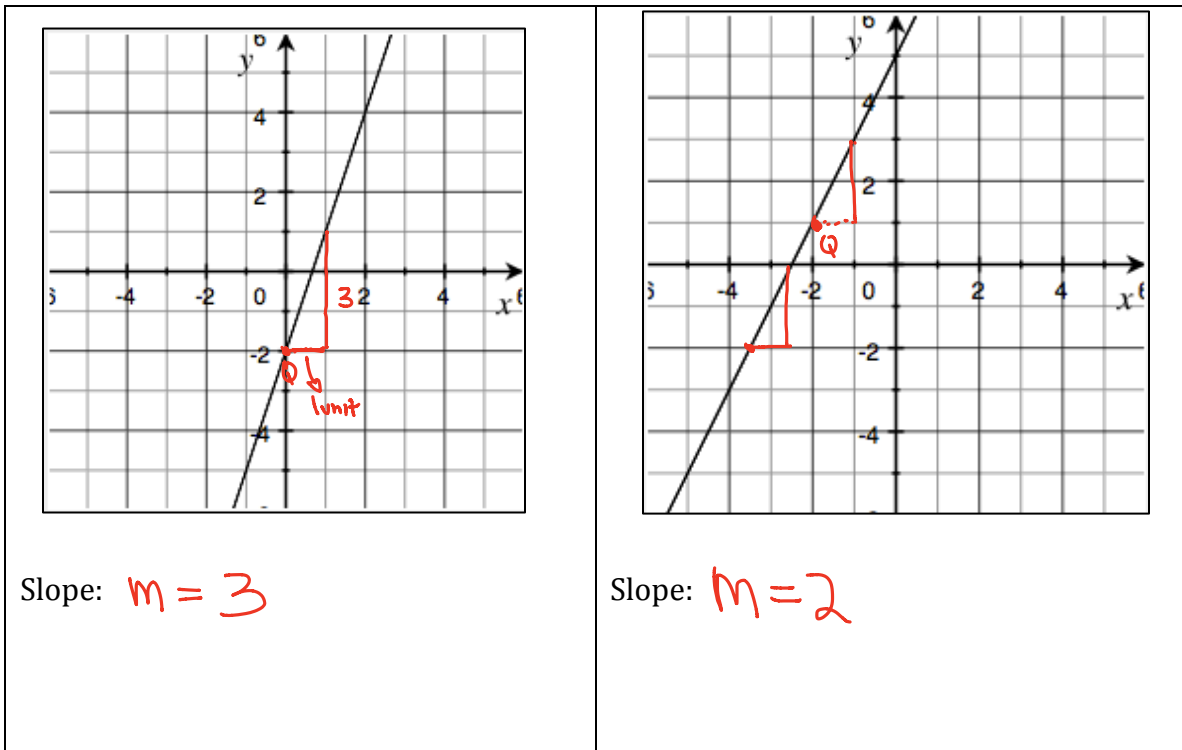
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GUIDED PRACTICE:

Steps for Determining the Slope of a Line—as a Unit Rate

1. Identify one point on the line and another point 1 unit away to the right. Label the point Q.
2. Count the number of vertical units from point Q to the line.
3. If necessary, express your slope as a fraction (not a decimal).

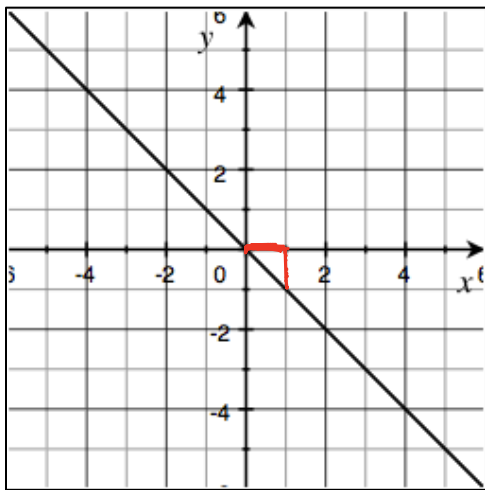


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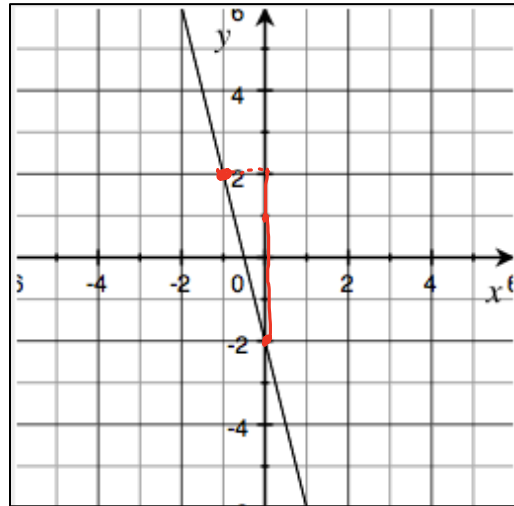
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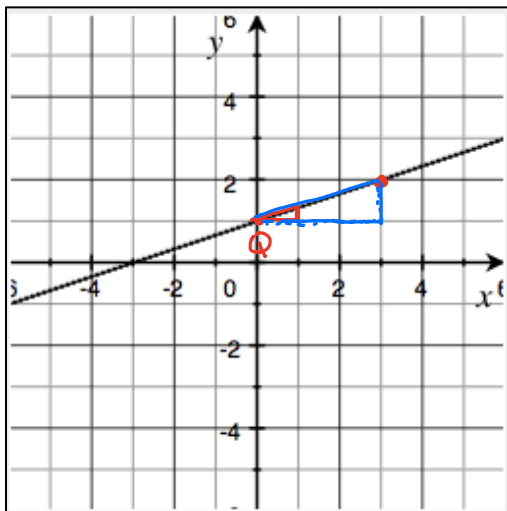
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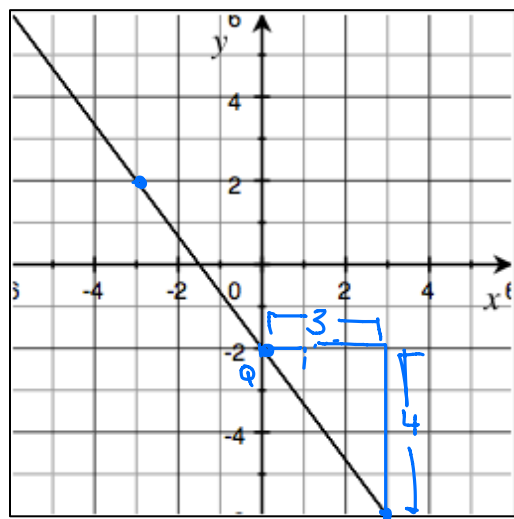
Slope: $m = -1$



Slope: $m = -4$



Slope: $m = \frac{1}{3}$



Slope: $m = -\frac{4}{3}$

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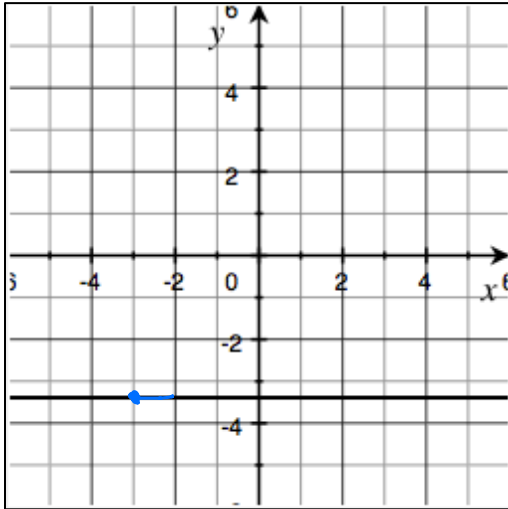
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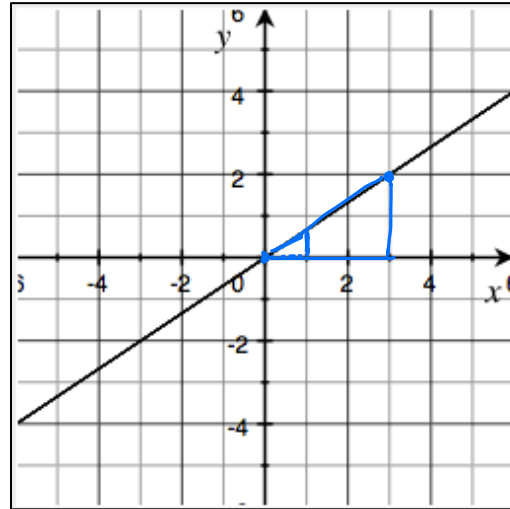
INDEPENDENT PRACTICE:

Determine the slope of each line.

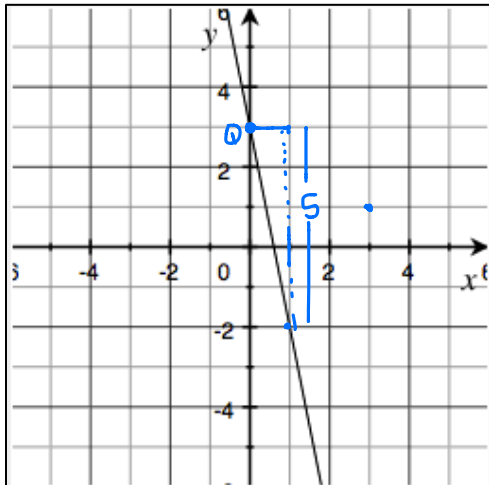
Slope: $m = 0$



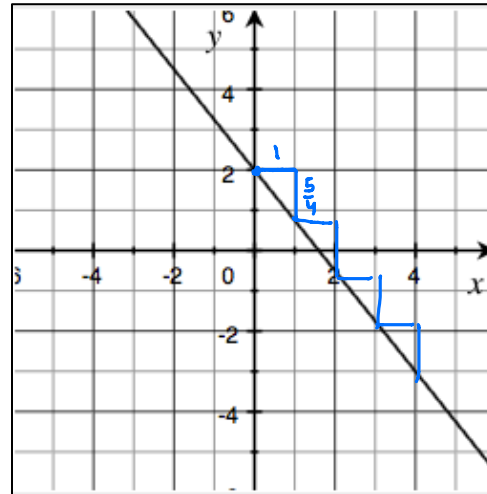
Slope: $m = \frac{2}{3}$



Slope: $m = -5$



Slope: $m = -\frac{5}{4}$



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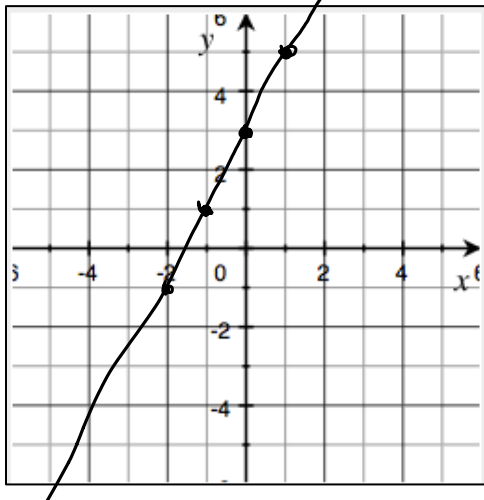
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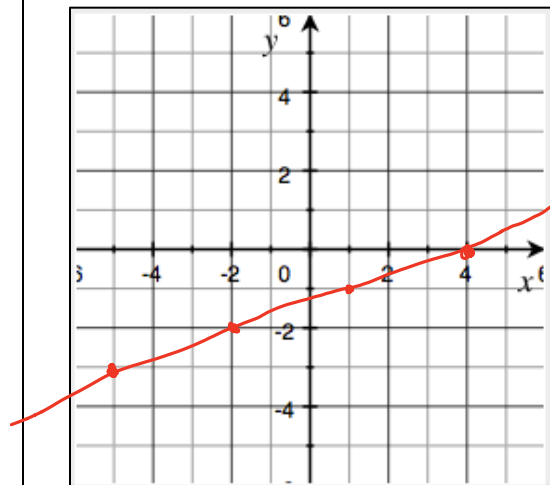
ACTIVATING PRIOR KNOWLEDGE:

Plot 4 points on the graph of the linear equation $-2x + y = 3$

$-2(1) + y$



Plot 4 points on the graph of the linear equation $x - 3y = 4$



CLOSURE:

Give out page s78 from ENY for closure.

TEACHER NOTES:

Lesson 15 ENY