

5.5 29
 Find Slope and Rate of Change

Slope

$\frac{\Delta y}{\Delta x}$ *the change in y / the change in x*

Rise / Run $\frac{y_2 - y_1}{x_2 - x_1} = m$

Oct 28-12:04 PM

Find the slope

Rise $\frac{y}{x} = \frac{4}{3}$
 Run
 Slope = $\frac{4}{3}$

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Oct 28-8:59 AM

Find the slope
 (2, -1) (3, 5)
 Slope: 6

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Find the slope
 (2, -1) (3, 5)
 $x_1 y_1 x_2 y_2$

$\frac{y_2 - y_1}{x_2 - x_1} = \frac{5 - (-1)}{3 - 2} = \frac{5 + 1}{1} = \frac{6}{1} = 6$

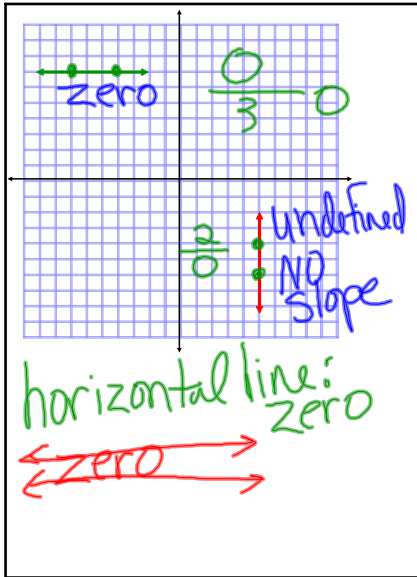
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Find the slope
 (-4, -2) (-3, -7)

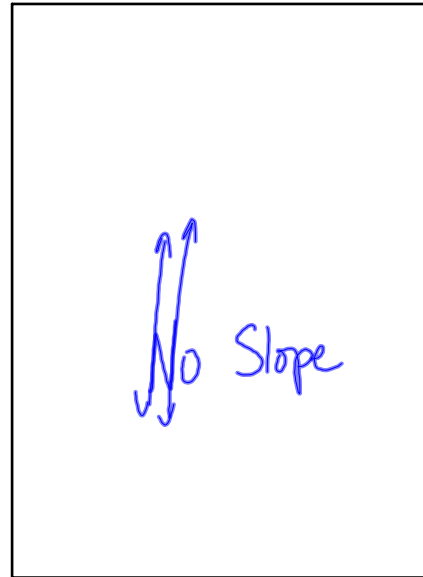
negative slope
 $\frac{-5}{1} = -5$

$\frac{-7 - (-2)}{-3 - (-4)} = \frac{-7 + 2}{-3 + 4} = \frac{-5}{1} = -5$

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Oct 28-2:10 PM

Solve for the missing letter
 $(j, 4), (6, -1); m = 5/6$

$$\frac{4 - (-1)}{j - 6} = \frac{5}{6}$$

$$\frac{5}{j - 6} = \frac{5}{6}$$

$$j - 6 = 6$$

$$j + 6 + 6 = 6 + 6$$

$$j = 12$$

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Solve for the missing letter
 $(5, 4), (-5, k); m = 3/5$

$$\frac{k - 4}{-5 - 5} = \frac{3}{5}$$

$$\frac{k - 4}{-10} = \frac{3}{5}$$

$$-30 = 5(k - 4)$$

$$-30 = 5k - 20$$

$$+20 \quad +20$$

$$\frac{-10}{5} = \frac{5k}{5}$$

$$-2 = k$$

Oct 28-1:02 PM

Assignment;
 WB 5.5; 1-19 odd

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