Febrary 3, 2015

#3) $y = \{(3,6), (-5,-10), (6,12), (4,8)\}$

$y \mid x \to 2x$

Feb 3-9:52 AM

Slope (m):

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

Given ordered pairs

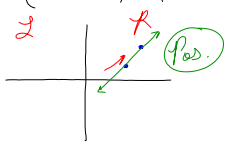
$(8, 5)$ & $(7, 3)$

Steps to find Slope

1. Do a quick graph of the points
2. Label y_2, y_1, x_2, x_1
3. Use formula to Calculate slope.

Feb 3-10:01 AM

$(8, 5)$ & $(7, 3)$

1. 

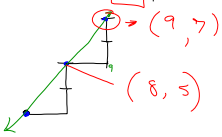
Read from Left to Right

a) if the line goes up, then the slope is Positive

b) if the line goes down, then neg. slope.

2. $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{(3) - (5)}{(7) - (8)} = \frac{-2}{-1} = \frac{2}{1} = 2$

2 units of Rise / 1 unit of Run



Feb 3-10:08 AM

$(3, 11)$; $m = \frac{3}{4}$

$(3+4, 11+3) = (7, 14)$

$(-8, -2) = \boxed{-\frac{5}{6}}$

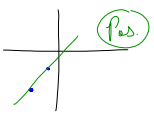
$-\frac{a}{b} = \frac{-a}{b} = \frac{a}{-b}$

$(-8+6, -2+(-5))$

$(-2, -7)$

Feb 3-10:21 AM

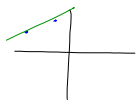
$(-5, -9)$ & $(-2, -4)$

1. 

2. $m = \frac{(-4) - (-9)}{(-2) - (-5)} = \frac{(-4) + (9)}{(-2) + (5)} = \boxed{\frac{5}{3}}$

Feb 3-10:26 AM

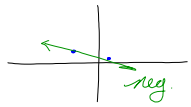
$(-11, 4)$ & $(-8, 7)$

1. 

2. $m = \frac{(7) - (4)}{(-8) - (-11)} = \frac{3}{3} = 1$

Feb 3-10:29 AM

$\left(-\frac{3}{4}, \frac{1}{2}\right)$ & $\left(\frac{2}{7}, \frac{1}{3}\right)$

① 

② $m = \dfrac{\frac{1}{3} - \frac{1}{2}}{\frac{2}{7} - \left(-\frac{3}{4}\right)}$

$= \dfrac{\frac{2-3}{6}}{\frac{8+21}{28}}$

$= -\dfrac{\frac{1}{6}}{\frac{29}{28}}$ Keep K, Change C, Flip F

$= -\frac{1}{6} \cdot \frac{28}{29} = -\frac{28}{174}$

$= \boxed{-\frac{14}{87}}$

Feb 3-10:33 AM

Do $\left(-\frac{5}{7}, \frac{2}{3}\right)$ & $\left(5, -\frac{3}{4}\right)$

&

3.2 COR

Feb 3-10:44 AM