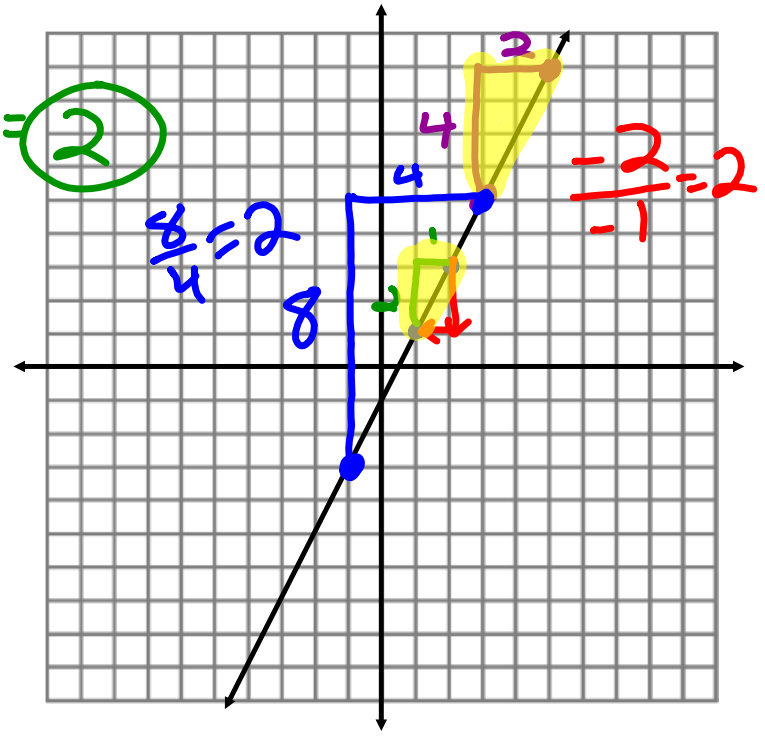
HW: Worksheet/9-22

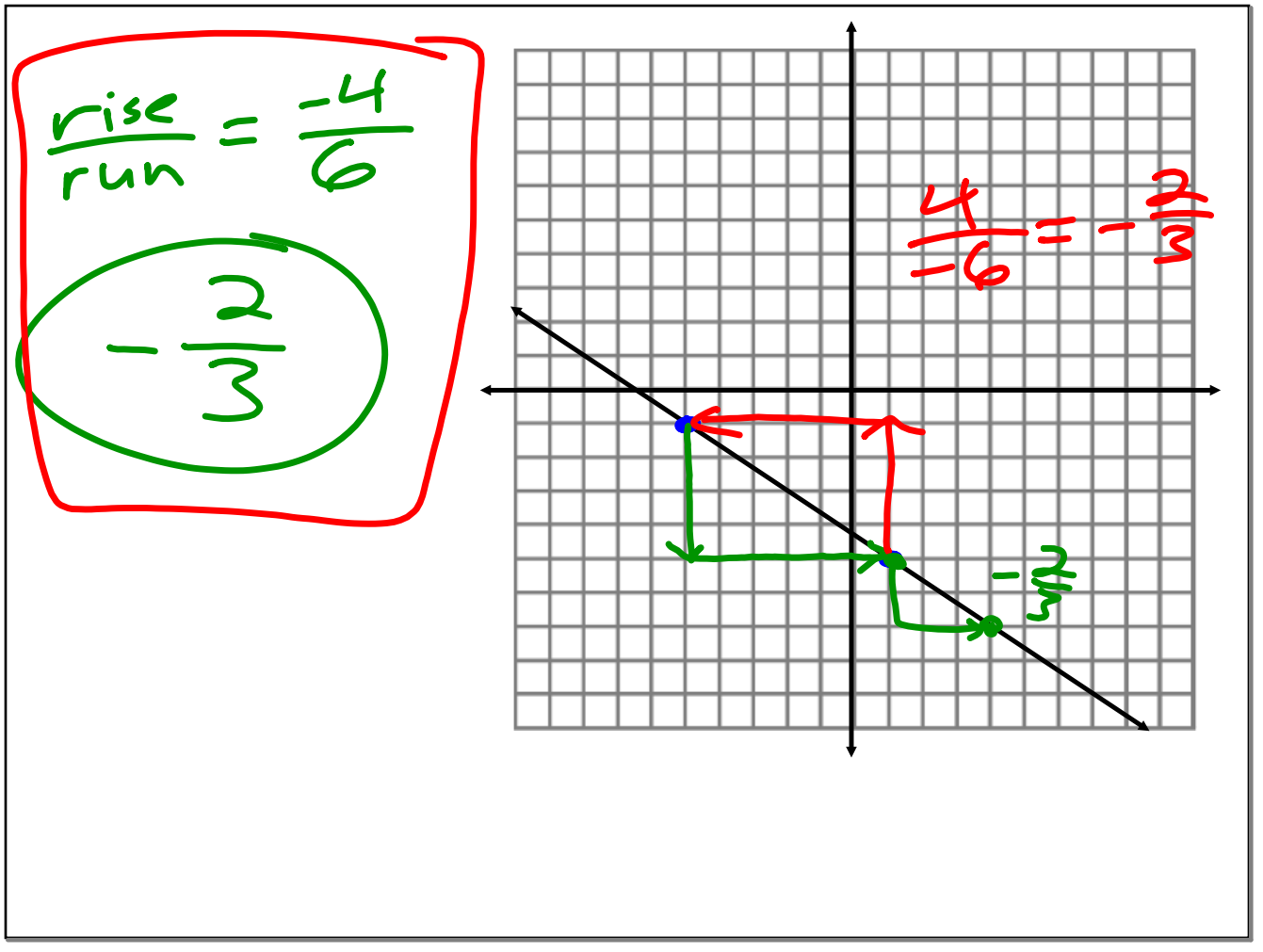
Slope

$\frac{4}{2} = 2$

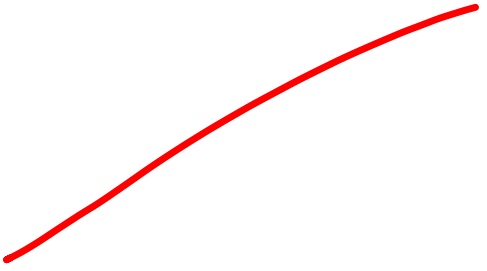
$\frac{\text{rise}}{\text{run}} = \frac{2}{1} = 2$



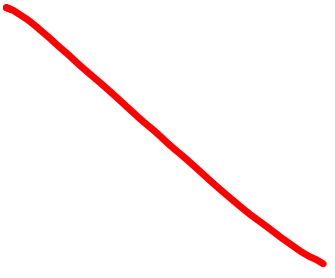
November 30, 2021



Positive Slope



Negative Slope



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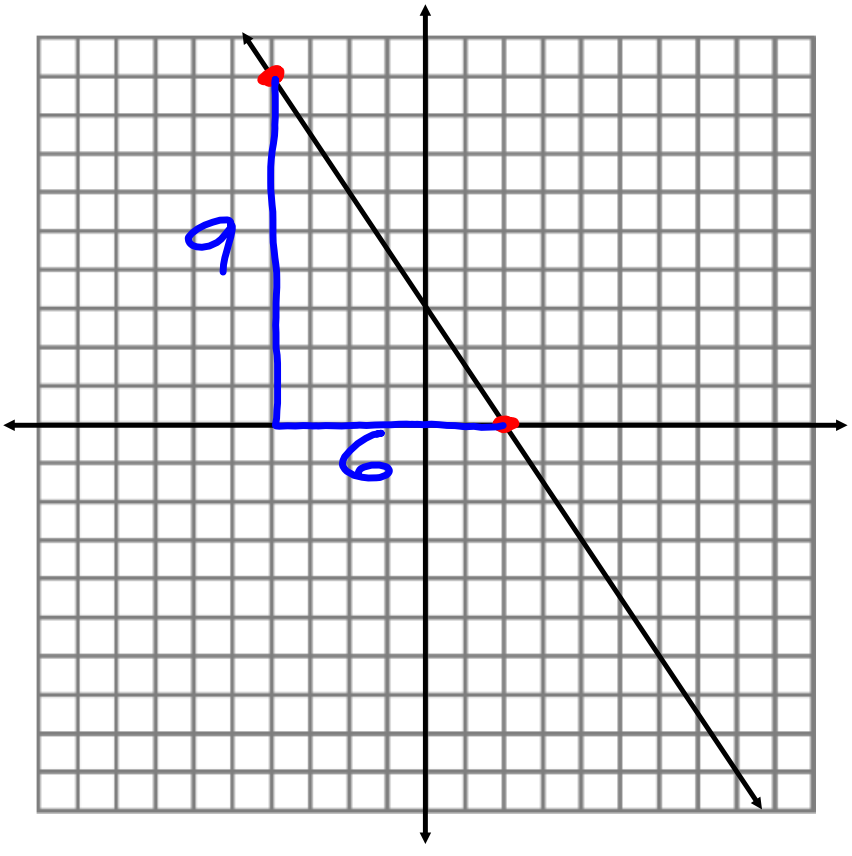
$$-\frac{9}{6}$$

$$-\frac{3}{2}$$



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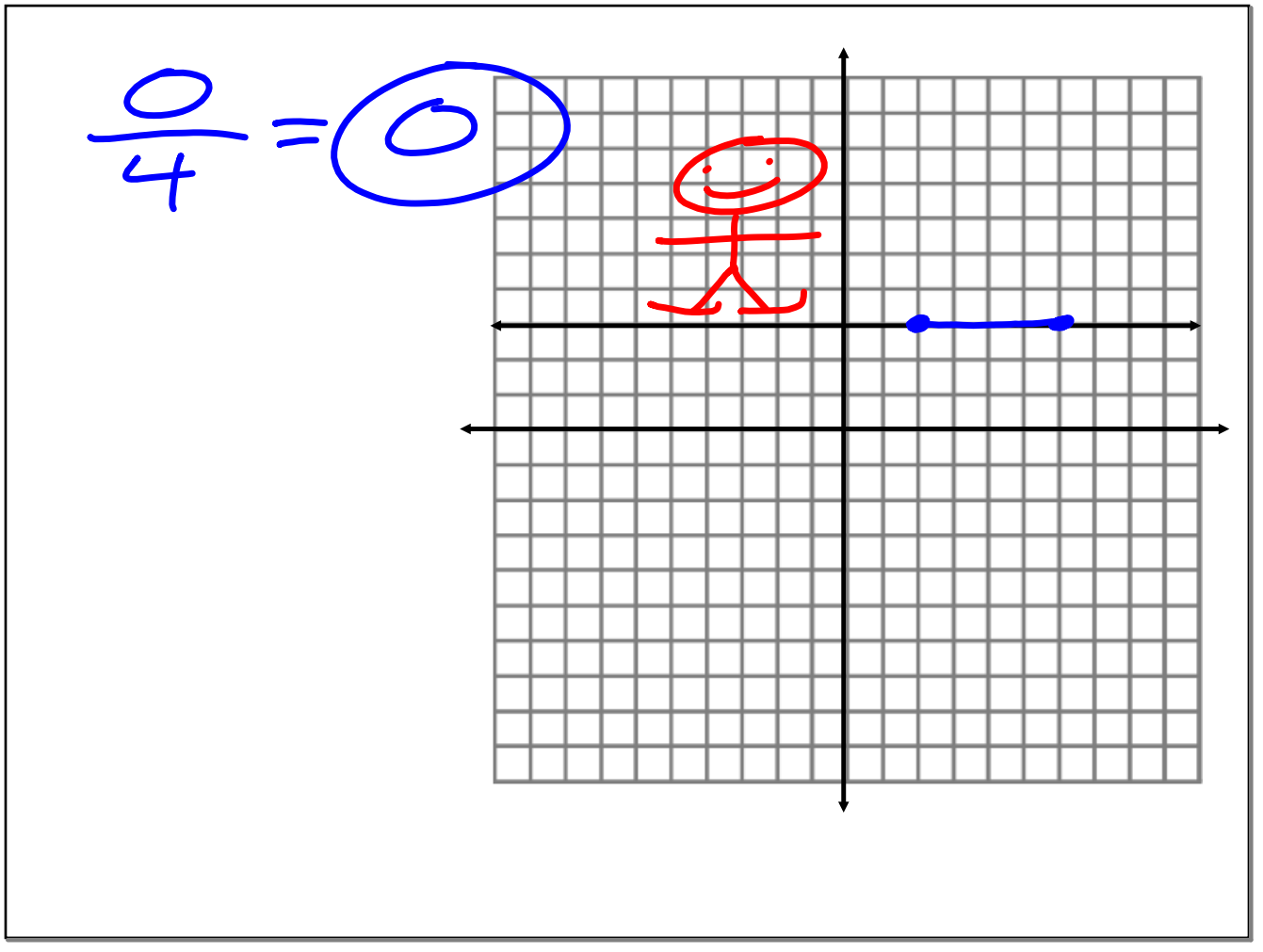
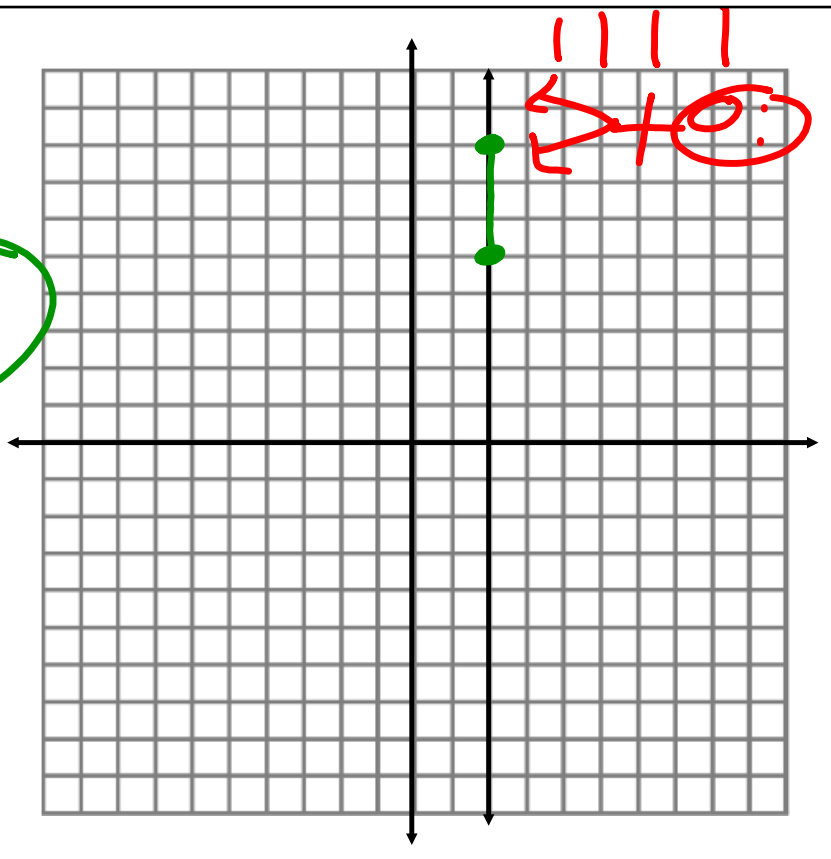


$\frac{3}{0}$

undefined



(2, 1) (6, 9)

$\frac{9-1}{6-2} = \frac{8}{4} = 2$ $\quad \frac{1-9}{2-6} = \frac{-8}{-4} = 2$

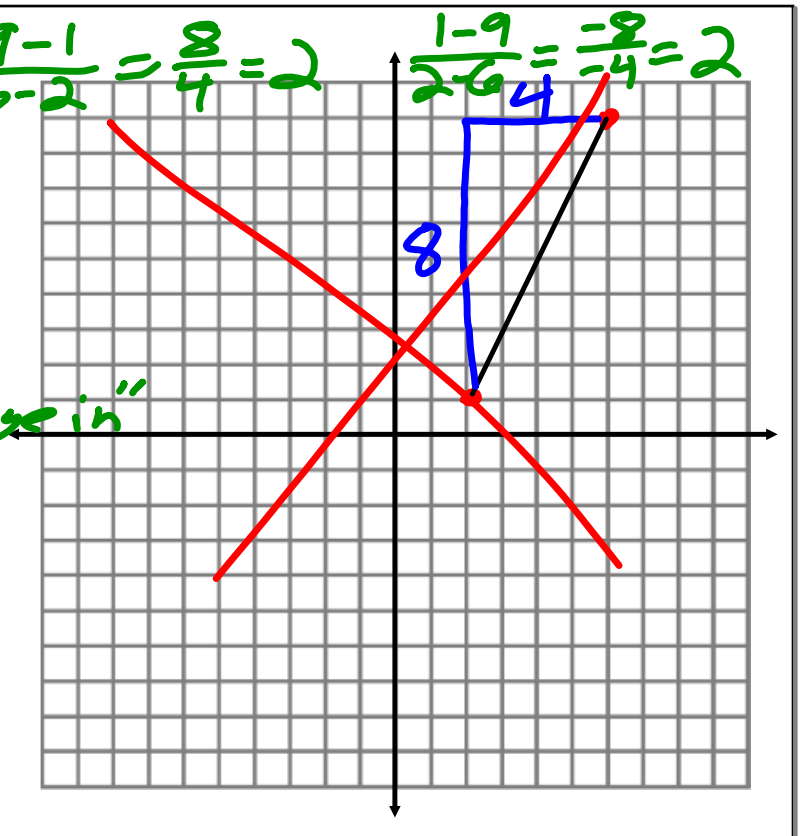
$\frac{8}{4} = 2$

$9-1=8$

$6-2=4$

"change in"

$\frac{\text{rise}}{\text{run}} = \frac{\Delta y}{\Delta x}$



For the slope of a line between two points (x_1, y_1) and (x_2, y_2)…

$\frac{\Delta y}{\Delta x}$

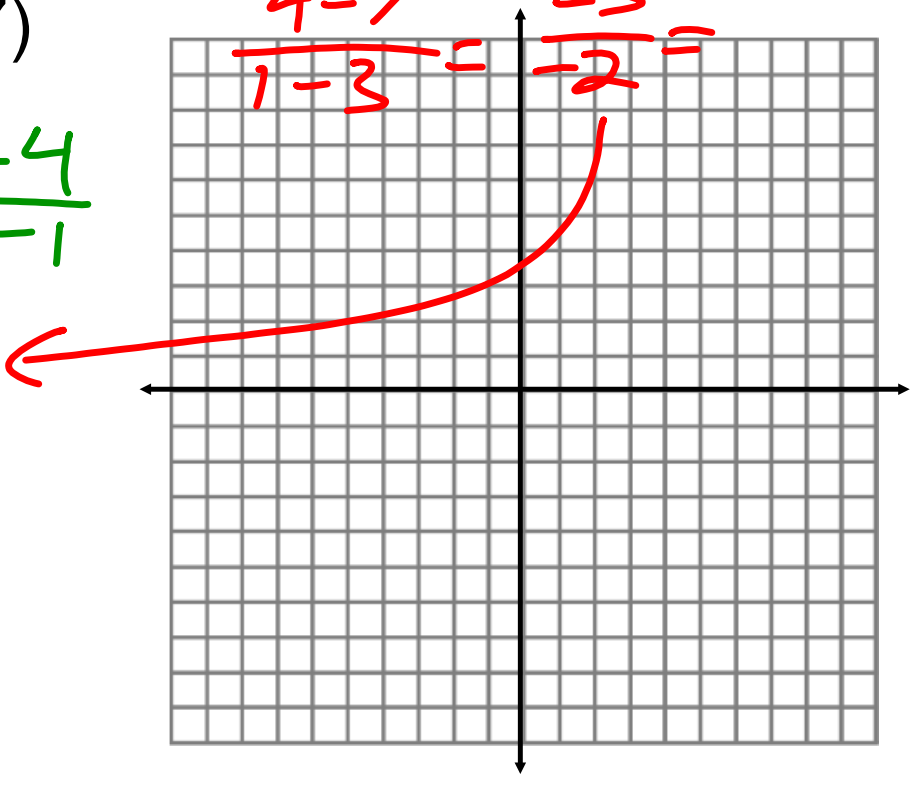
$$slope = \frac{y_2 - y_1}{x_2 - x_1}$$

(1, 4) (3, 7)

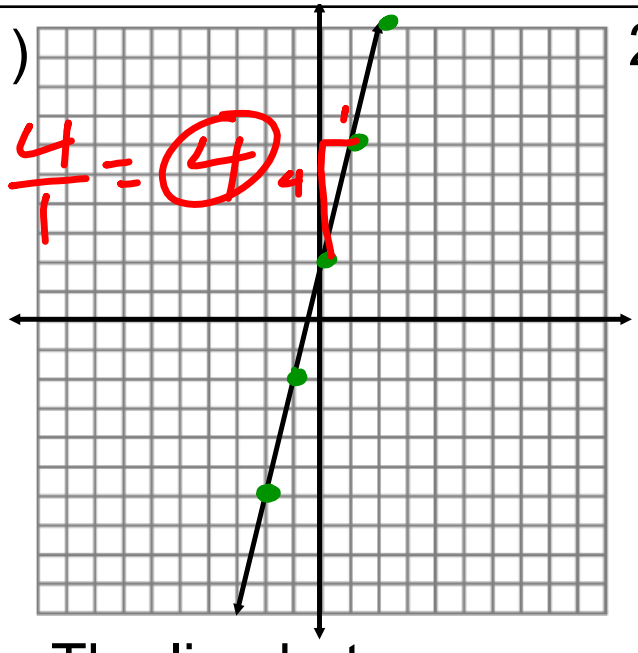
$\frac{\Delta y}{\Delta x} = \frac{7-4}{3-1}$

$= \frac{3}{2}$

$\frac{4-7}{1-3} = \frac{-3}{-2} =$

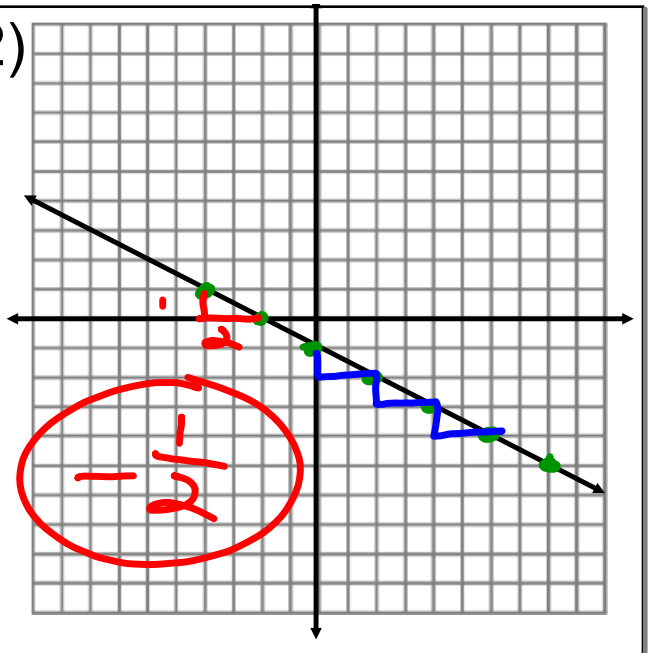


1)



$\frac{4}{1} = 4$

2)



$-\frac{1}{2}$

The line between...

3) (2, 4) and (-5, 10)

$\frac{\Delta y}{\Delta x} = \frac{10-4}{-5-2} = \frac{6}{-7}$

$-\frac{6}{7}$

4) (2, 5) and (6, 5)

$\frac{5-5}{6-2} = \frac{0}{4} = 0$

5) (-1, 0) and (4, -3)

$\frac{-3-0}{4-(-1)} = \frac{-3}{5} = -\frac{3}{5}$

6) (4, 7) and (4, -9)

$\frac{-9-7}{4-4} = \frac{-16}{0} =$

undefined

x	y
1	-2
2	1
3	4
4	7

$$\frac{\Delta y}{\Delta x} = \frac{4-1}{3-2} = \frac{3}{1}$$

$$= 3$$

x	y
1	2
2	0
3	-2
4	-4

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