

## SLOPE VOCABULARY

RATE OF CHANGE: Slope  
(THE WORD Slope WAS NOT USED ON STAAR TEST)

SLOPE GUY



SLOPE FORM

Ry'se  
Run

# SLOPE 4 WAYS

2 POINTS:

$x_1, y_1, x_2, y_2$   
 (10, -10), (0, 7)

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

TABLE:

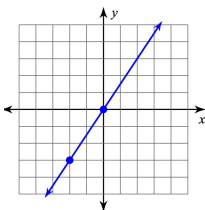
| x  | y   |
|----|-----|
| 9  | 2   |
| 3  | -2  |
| -3 | -6  |
| -9 | -10 |

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

$\rightarrow -4$

$$= \frac{-4}{-6} = \frac{2}{3}$$

GRAPH:



Rise  


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 Run

DESCRIPTION:

pos or neg  
 rise & run  
 steep vs. less steep  
 $m > 1$        $0 < m < 1$

## SLOPE MISTAKES

$x_1, y_1, x_2, y_2$

$(-8, -9), (12, -2)$

$x_2, x_1$   
 $(12) - (-8)$

$(-2) - (-9)$

$$\frac{(-2) - (-9)}{(12) - (-8)}$$

#1: Switch  
 $x/y$

$x_1, y_1, x_2, y_2$

$(13, 17), (10, -1)$

$x_1, x_2$   
 $(-1) - (17)$   
 $(13) - (10)$

$$\frac{(-1) - (17)}{10 - 13}$$

#2: Mix up  
 pairs