

February 27, 2017  
 \* Quiz #? - Wednesday  
 3.1 & 3.3

3.1 #22  $y = |x + 2|$

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

Feb 27-9:01 AM

3.1 #1 - #25 odd

### 3.3 Slope - Rate of Change

def: Slope: the rate at which the dependent (y) variable changes as the independent variable changes.

Feb 27-9:14 AM

Slope =  $m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\Delta y}{\Delta x}$

$x_2 - x_1 = \Delta x$  (delta 'Change')

Feb 27-9:17 AM

$(x, y)$  ordered pair

- Horizontal Coordinate → Independent Variable
- Vertical Coordinate → Dependent Variable

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Trending Slope:  $\frac{y_2 - y_1}{x_2 - x_1}$

$(7, 3)$   $(6, -4)$   
 $x_1, y_1$   $x_2, y_2$

$$m = \frac{(-4) - (3)}{(6) - (7)} = \frac{-7}{-1} = 7$$

Slope:  $\frac{7}{1} = \frac{\Delta y}{\Delta x} = \frac{7 \text{ units}}{1 \text{ unit}}$

Feb 27-9:36 AM