Name:_____ Notes Algebra Section 4.4 Pages 235-242

Date:

Goal: "You will find the slope of a line given two points" "You will find the slope of a graphed line" "You will find and interpret rate of change"

Definition	Formulas		
<u>SLOPE</u> -	Formula When To Use		
<u>SYNONYM:</u>			
Direction	Zero vs. Undefined		
	←>		

Find the slope of the line that passes through the given points. (Be sure to write down the formula you are using)

Ex: (5, 2) and (4, -1)

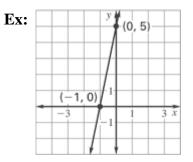
Ex: (-2, 3) and (4, 6)

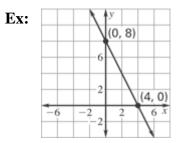
Ex: $\left(\frac{9}{2},5\right)$ and $\left(\frac{1}{2},-3\right)$

Ex: (3, 4) and (-2, 4)

Ex: (-5, 1) and (-5, 3)

Find the slope of the line graphed.

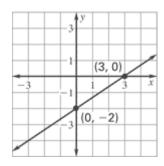




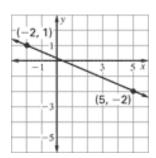
Ex:

1	y	-
2	(0, 3)	
-1		
1	1	3 x
-3		
	-1-	(0, 3) -1 -3

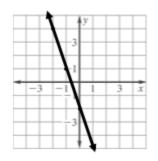
Ex:



Ex:



Ex:



Ex: Gas prices went from \$3 to \$4 between June 1^{st} of 2008 and August 1^{st} of that same year. Find the rate of change for the price of gas during that time period?

Ex: Gas prices then began to fall after this spike. They fell back to \$2 by November 19th. What is the rate of change of the price of gas for this time period?

Ex: Which time period had a greater rate of change? Why?

Ex: The table below shows the cost of using a computer at the internet café for a given amount of time. Find the rate of change with respect to time.

Time (hrs)	2	4	6
Cost (\$)	7	14	21