Warm Up

October 23, 2018

1.) Which deal is the better buy?



2.) If f(x) = 3x + 2, $g(x) = 3x^2 - 4x$, and $h(x) = 4^x$, evaluate:

A.) f(-5) B.) g(-2)

C.) h(-2)

3.) Which is longer: 11 meters or 12 yards?

#19
$$L=5w$$
 $p=130$
 $w=130$
 $w=10$
 $w=10$
 $L=5w=5(10)$
 $L=50$
 $L=50$
 $L=50$
 $L=50$

$$#30$$
 45.75 $58.75(.075)$ $+32.50$ $+ax$ $58.75++ax$

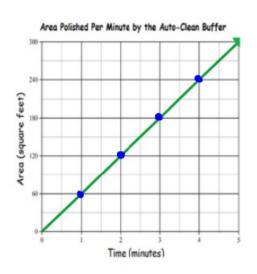
Task

The Auto-Clean Buffing Machine polishes floors at a steady rate. Suppose it can finish the floor of a 330 square foot room in 5.5 minutes.

How large an area can it polish in 1 minute?

What is the slope of the line that shows the area the machine can polish over time?

Identify the variables, make a table of values, and use a graph to find your answer.



שרותד								
min	4+9							
J	OU							
9	190							
3	180							
4	940							
5	300							

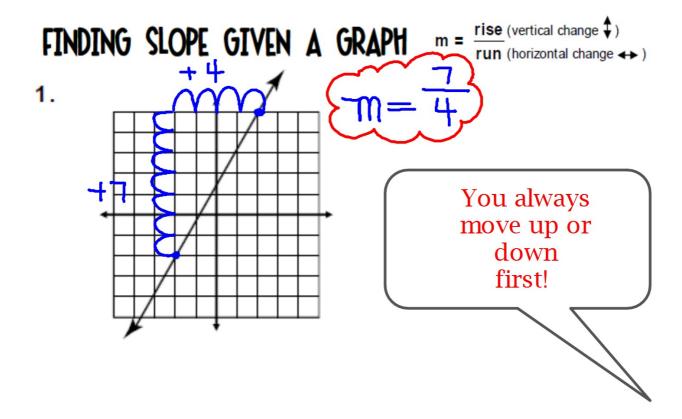
Auto.

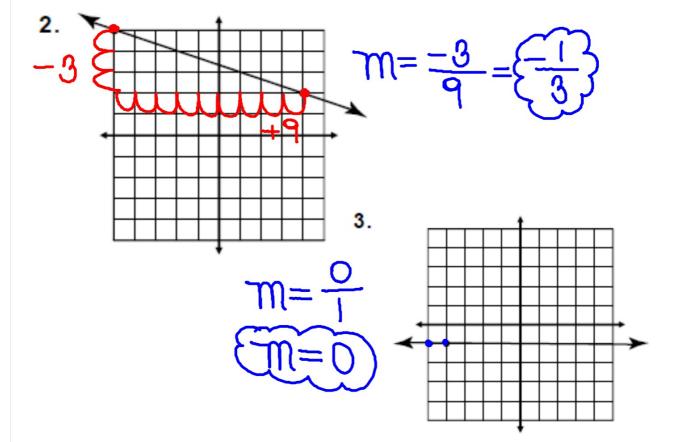
Clean

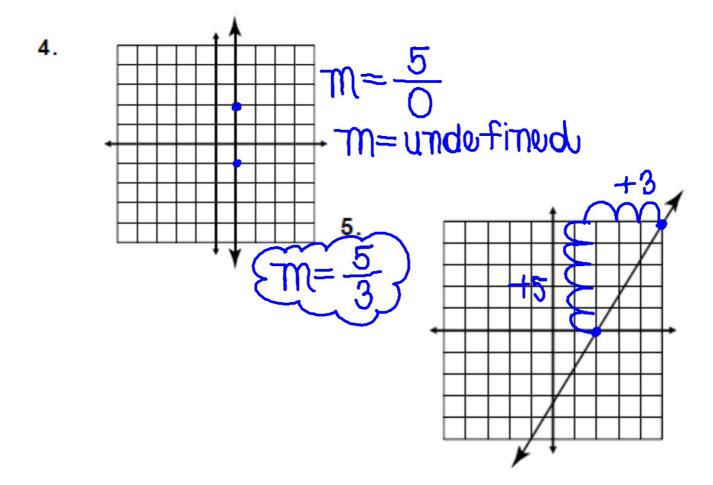
This graph results from our ordered pairs.

Its *slope* is the ratio of vertical change to horizontal change between any two points on the line.

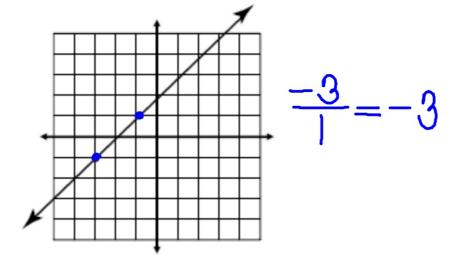
<u>rise</u> up or down run left or right WHAT IS SIOPE? between points on a line The const on the ______ of a line. Main Ideas/Questions Notes/Examples a ratio that shows how one variable Rate of changes with respect to another. Change slope On a linear graph, this is called the ___ of the line! Slope is written as a _ratio of the **vertical change** (rise, V) Slope to the **horizontal change** (\underline{run}, X) between any two points on a This remains constant for any two points on the same line. Slope is written as a fraction in simplest form Variable for slope: __m Types of Slope undefined positive | negative zero





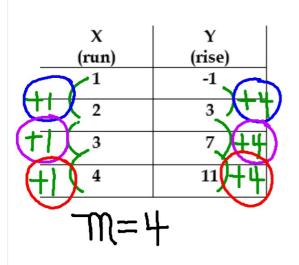


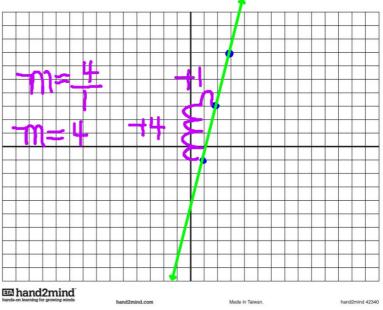


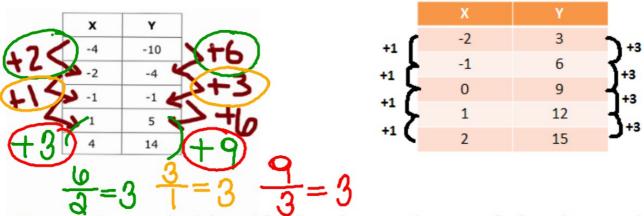


Slope from a Table

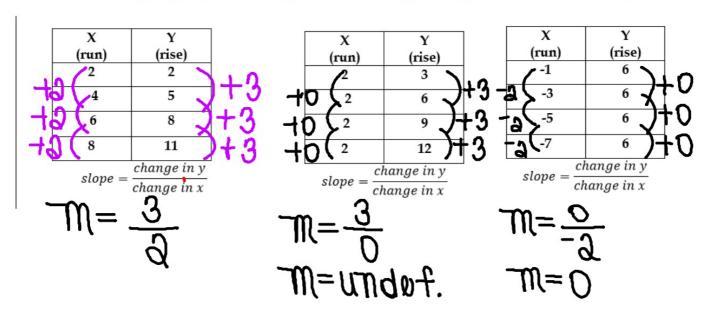
CHANGE IN Y CHANGE IN X







For each graph, identify the change in y and the change in x.



Practice Problems											
Ex. 1)			Ex. 2)			Ex. 3)					
			ı				,				
	X	У			X	У			x	у	
	0	5			-2	10			2	.,,	
	1	10			-4	4			2	14	
	2	15			-6	-2			5	35	
	3	20			-8	-8			7	40	
	4	25			-10	-14			7	49	
	5	30			-12	-20			10	70	
$slope = \frac{change \ in \ y}{change \ in \ x}$		$slope = \frac{change \ in \ y}{change \ in \ x}$			$slope = \frac{change \ in \ y}{change \ in \ x}$						