Get out your homework from last night. Grab a half sheet from the front table and start warming up. We will have a target check tomorrow on constant rate of change and slope.

Classwork - Slope Practice Problems



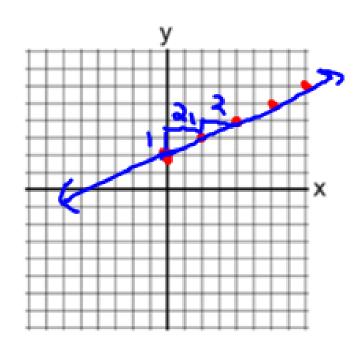
Slope
$$\rightarrow \frac{rise}{run}$$

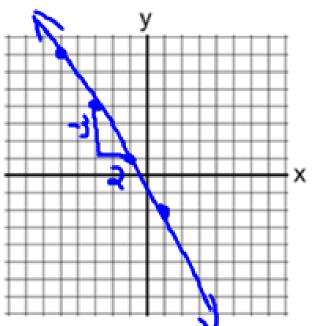


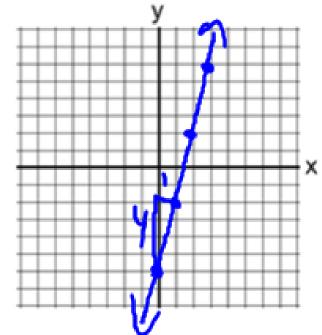
1) (0, 2) and
$$m = \frac{1}{2}$$

1) (-3, 4) and
$$m = -\frac{3}{2}$$
 1) (0, -6) and $m = 4$

1) (0, -6) and
$$m = 4$$

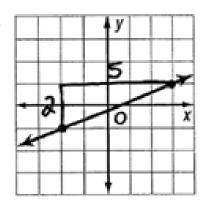




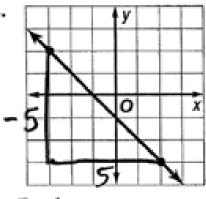


Find the slope of each line. The variable m represents slope.

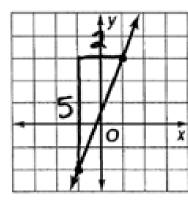
1.



2.



3.



The points given in each table lie on a line. Find the slope of the line. Then graph the line.

4.

		#	L to	2 c	1
١.	X	-1	1	3	5
	у.	-2	0	2	4
				9 1	2.

2 12 112 1

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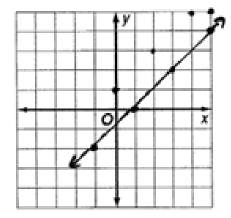
5.

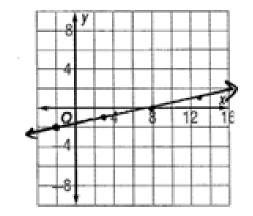
		+	9 1	> 42		
	х	-2	3	8	13	
	у	-2	-1	0	1	
+1 +1 +1						

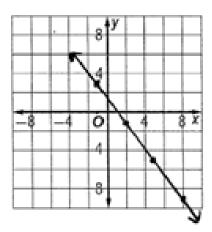
Š

6

			3	4 > _	45	
	x	-1	2	5	8	
I	y	3	-1	-5	-9	
	_4 -4 -4					



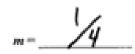




Find the slope of the line that passes through each pair of points.

£.

- 12. SNOWFALL Use the graph at the right. It shows the depth in feet of snow after each two-hour period during a snowstorm.
 - a. Find the slope of the line.



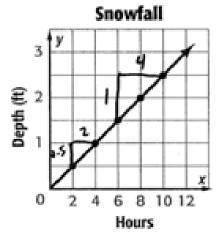
b. Does the graph show a constant rate of change? Explain.

tes, as the hours increase by I, the Whe depth increases by 1/4 of a ft.

e. If the graph is extended to the right, could you expect the slope to remain constant? Explain.

No, the snow would eventually stop

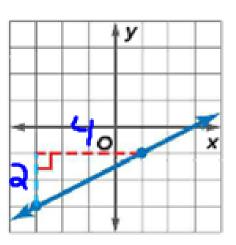
d. Is the relationship between the depth of the snow and the number of hours directly proportional? Explain.



Independent Practice #2-8, and 10-12. If you get done with that work on #15 - 22

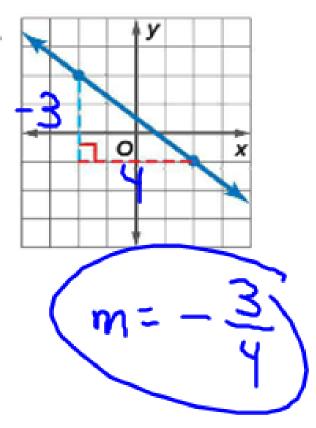
Find the slope of each line. (Example 2)

2.



$$m = \frac{a}{4} - \left(\frac{1}{a}\right)$$

3.



The points given in the table lie on a line. Find the slope of each line.

(Example 3)



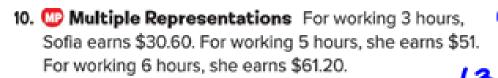
		12	+2	+2	
X	0	2	4	6	
у	9	4	-1	-6	-5/
	_	S -	5	-5	/ 0

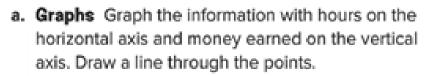
5.

+ \						
X	0	1	2	3		
у	3	5	7	9		



Find the slope of the line that passes through each pair of points. (Example 4)





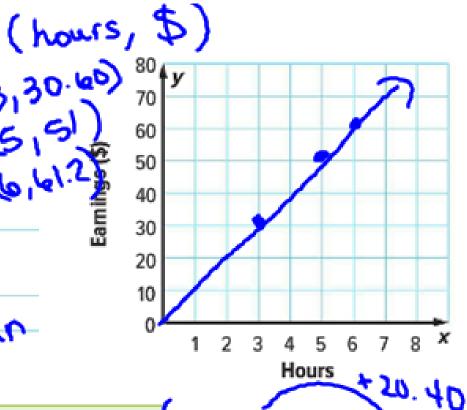
b. Numbers What is the slope of the line?



c. Words What does the slope of the line represent?

How does the slope relate to the unit rate?





O.

H.O.T. Problems Higher Order Thinking

 Find the Error Jacob is finding the slope of the line that passes through X(0, 2) and Y(4, 3). Circle his mistake and correct it.

