

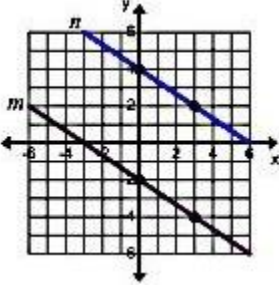
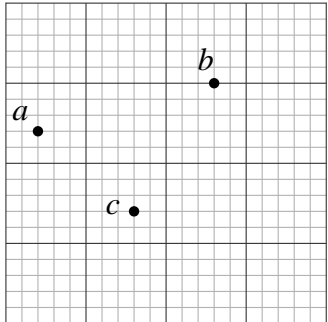
1B Slippery Slopes

Name _____ Per: _____

NO WORK, NO CREDIT. PENCIL ONLY.

Objective: Compare slopes from a combination of equations, graphs and/or tables. Due: Aug 28th /Aug 29th

Find slope for the following lines:

<p>1. line n: _____ line m: _____</p> <p>What do you notice about the slopes of these two lines?</p>		<p>2. line n: _____ line m: _____</p> <p>What do you notice about the slopes of these two lines?</p>	<p>3. Graph the given slopes at the corresponding letter. line a: $\frac{2}{3}$, line b: $-\frac{2}{3}$, line c: $\frac{3}{2}$</p> 
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4. Find the **slopes** for the following tables, points and graphs. For the graphs, **also find the intercepts**.

a.

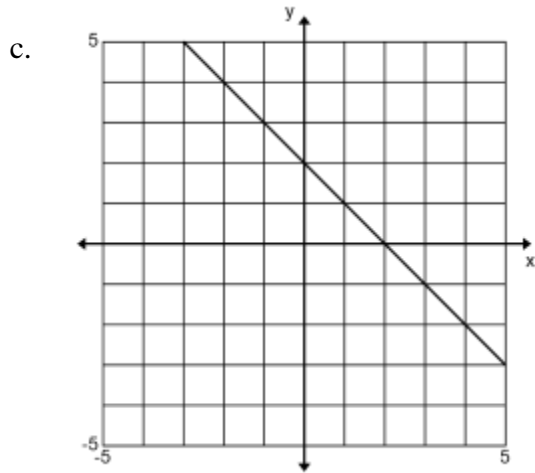
X	Y
-3	-2
2	-12
-10	12

 Slope: _____

b.

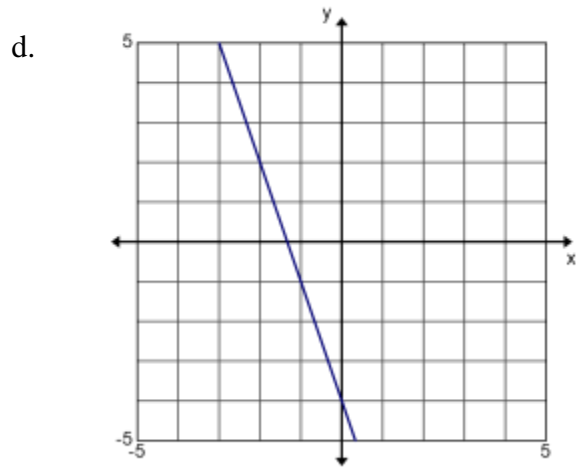
X	Y
-5	4
1	22
4	31

 Slope: _____



Slope: _____
y-intercept: _____
x-intercept: _____

EC. Equation: _____



Slope: _____
y-intercept: _____
x-intercept: _____

EC. Equation: _____

e. $(3, -7)$ and $(-2, 6)$

f. $(1, 3)$ and $(-5, -9)$

Solve the following equations for “y” and list the slopes.

5. $9y = 3x + 1$

6. $20x + 5y - 7 = -2$

7. $2x + 3y + 2x = 8$

- a. Solve: _____
 b. Slope: _____

- a. Solve: _____
 b. Slope: _____

- a. Solve: _____
 b. Slope: _____

8. The Daley family decides to buy a LED screen HDTV that costs a TOTAL DEBT of \$460. Mrs. Daley decided that they will pay \$60 a week.

- a. Fill in the table to show the money **owed** each week.
 b. How can you tell from a table if the slope is positive or negative?

 c. What is the slope (rate of change) of the story?

	Pattern	Debt (D)	
		460	
w			

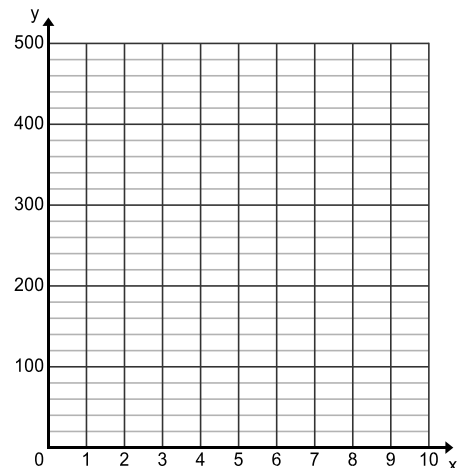
- d. Write an equation that represents the relationship between the amount the Mrs. Daley family still owes and the number of weeks after the purchase. _____
 e. Mr. Daley, realizes that they have extra funds, and pays \$100 down and decides to pay \$40 a week. Make another table to reflect the new payment plan.

- f. What is the slope (rate of change) of the story? _____
 g. Write an equation that represents the new relationship between the amount Mr. Daley will now owe.

# of weeks	Pattern		
0		360	
w			

- h. List at least two ways that the equations changed? _____
 i. Which plan do you think will be paid off first? _____
 j. Label the axes and graph the two different payment plans.
 k. How can you tell from a graph is the slope is positive or negative?

 l. Analyze your graph, who’s plan will be paid off first? _____



E.C. List the x- and y-intercepts for Mrs. Daley’s plan.
 y-intercept (0,) and x-intercept (, 0)

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