Algebra P3
Homework #4

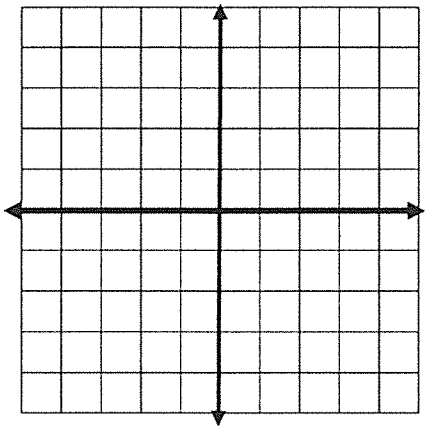
Name:

Graphing Lines and Slopes

1. Finish the table of solutions. Then graph the line.

$y = -x + 2$

x	y
-2	
-1	
0	
1	
2	



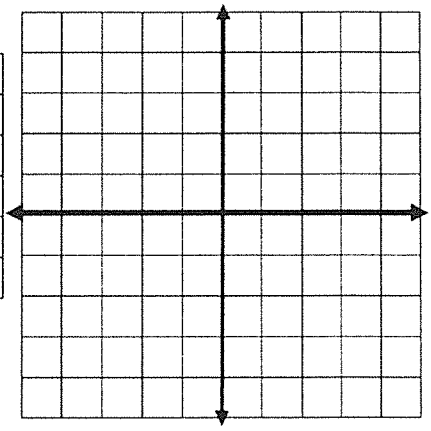
a) The y-intercept is (___ , ___).
b) The x-intercept is (___ , ___).
c) Pick two points on the line.
Draw in a "rise" and a "run."

What is the slope m of the line? $\left(\frac{rise}{run}\right)$ = _____

2. Finish the table. Then graph the line.

$y = \frac{1}{2}x$

x	y
-2	
-1	
0	
1	
2	



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3. Solve the equations for x.

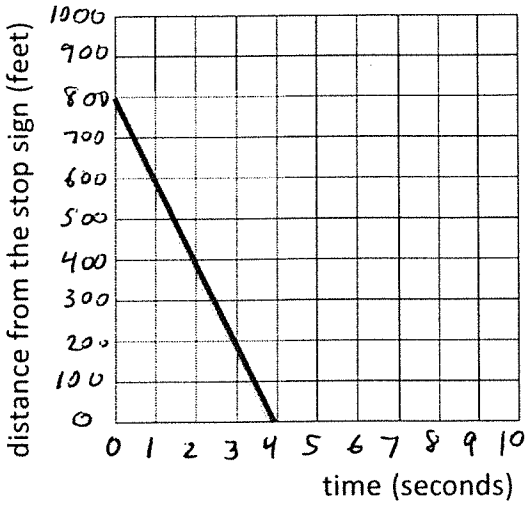
$-4 = -3x - 7$ $\quad 3x - 7 = x + 8$ $\quad 2(4x - 4) = -5(x - 1)$ $\quad \frac{2x}{3} - 4 = 2$

4. Here are some graphs. Find each slope, and then explain in words what the slope means.

a) A car is approaching a stop sign.

slope m =

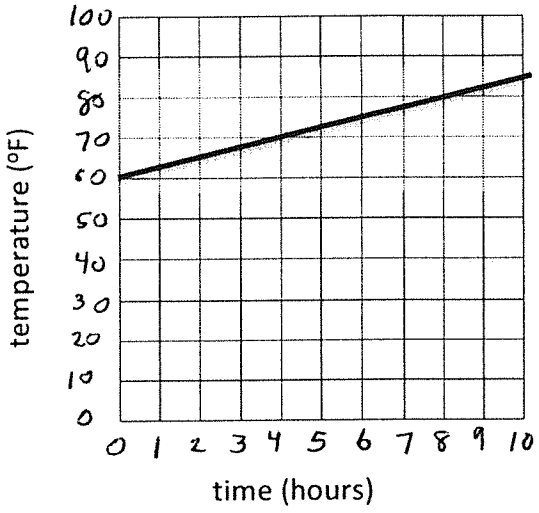
meaning: Whenever the # of seconds goes up by ____ ,
the distance goes _____ by _____ feet.



b) The temperature outside on a nice day.

slope m =

meaning:



c) Cost of a computer over time.

slope m =

meaning: