

Directions: Show all work! No calculator.

1. Solve for x.

a. $-6 = -2x - 5$

b. $4x + 2x - 3 = 7x - 3 + 2x$

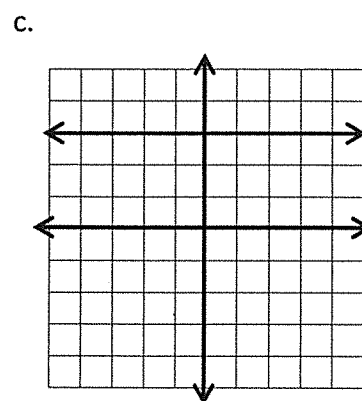
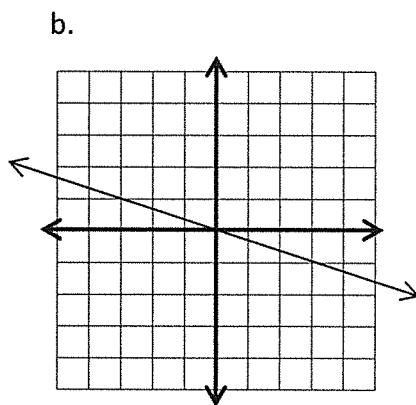
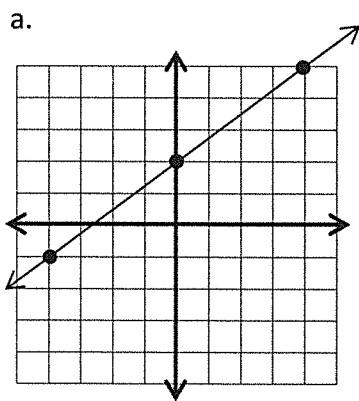
c. $4x - 5 = 4x - 2$

c. $-4(x - 5) = 3(x + 6)$

d. $\frac{3x}{4} - 7 = 2$

e. $3x + 4 = 6x - 3x + 4$

2. Find the slope of each line.



3. Is the given point on the line $3x - 2y = -8$? Must show work!

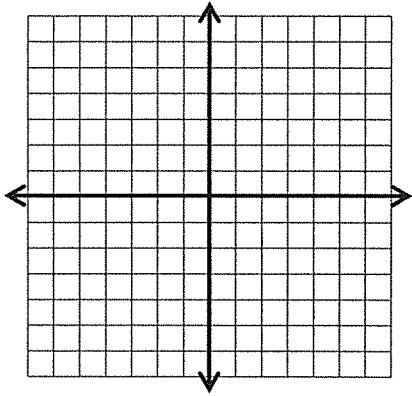
a. $(-1, 5)$

b. $(0, 4)$

4. Graph the line by making a table, then give the slope.

a. $y = -4x + 1$

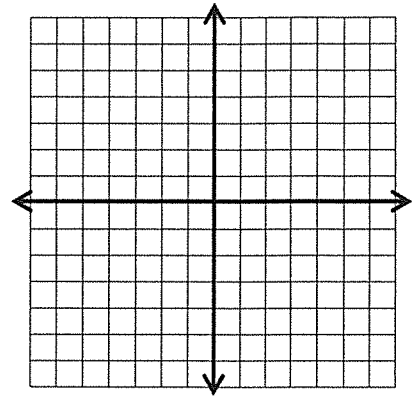
x	y



slope = _____

b. $x = 3$

x	y

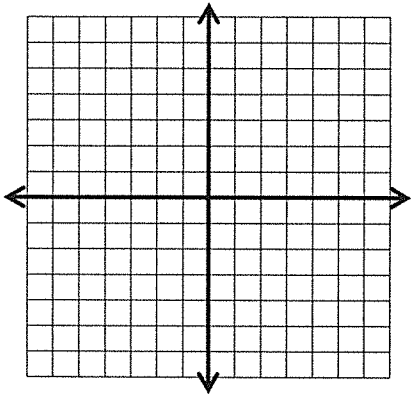


slope = _____

5. Find the x-intercept and y-intercept. Graph the lines and give the slope.

$3x - 2y = 12$

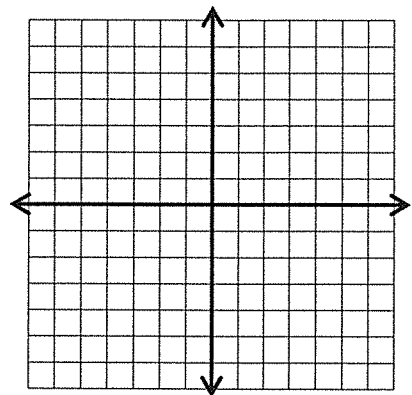
x	y



slope = _____

$3x + y = 6$

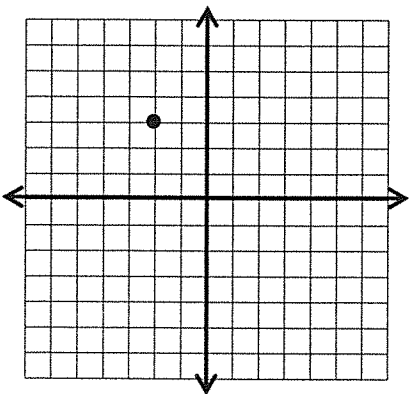
x	y



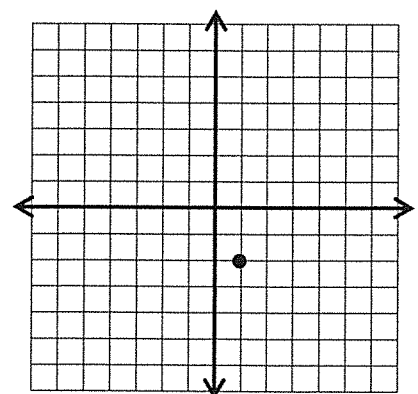
slope = _____

6. Graph the line through the given point using the slope.

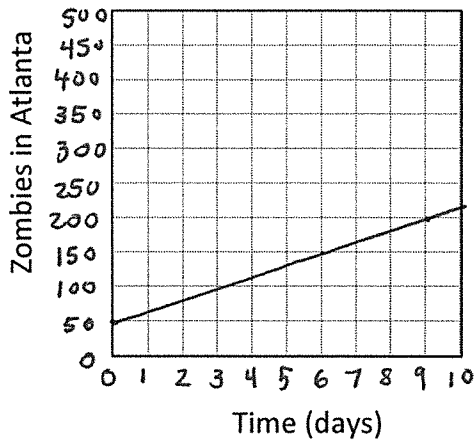
$m = \frac{-2}{3}$



$m = 3$



7. Here is the graph of the number of zombies in Atlanta, Georgia.

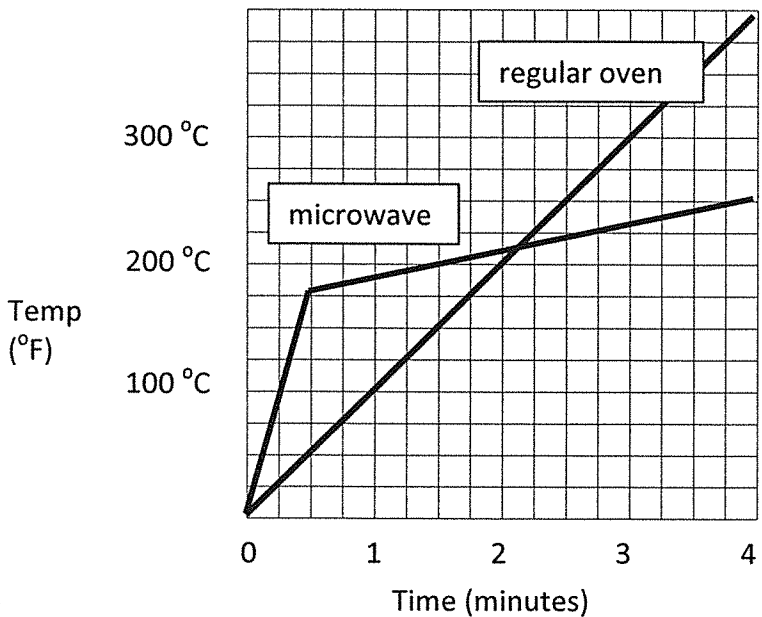


Slope =

Explain the meaning of the slope.

Explain the meaning of the y-intercept.

8. Here is a graph showing two different methods of heating a dinner, using an oven and a microwave.



Describe the difference between the two methods. You must have 3 differences, and one must be a statement about the slopes and what that means.

a)

b)

c)

9. What is the slope of the regular oven's temperature?