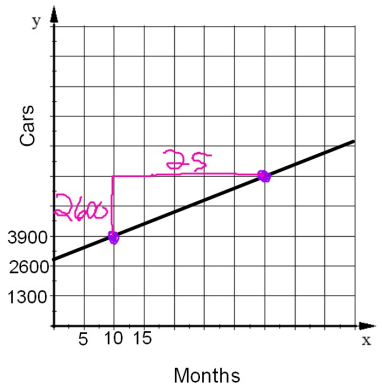
Bellwork Thursday, February 27, 2014

1. Find the rate of change.



$$\frac{6500-3900 \text{ cars}}{35-10 \text{ months}} = \frac{2600 \text{ cars}}{25 \text{ months}}$$

$$= 104 \text{ cars/month}$$

2. Write the equation of the line that passes through each pair of points in both Point-Slope and Slope-Intercept Forms.

(-6,-7) and (12,-1)

$y = mx + b$

$\frac{-7-1}{-6-12} = \frac{1}{3}$

$y = \frac{1}{3}x + -5$ slope-int

$-5 = b$

point-slope $y+1 = \frac{1}{3}(x-12)$

3. Write the equation of the line that passes through each pair of points

a) (-5, 9) and (-5, 2)

$x = -5$

$\frac{9-2}{-5-5} = \frac{7}{0}$

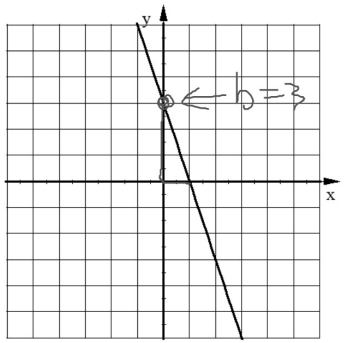
b) (-3, 1) and (1, 1)

$m = \frac{0}{4} = 0$

$y = 1$

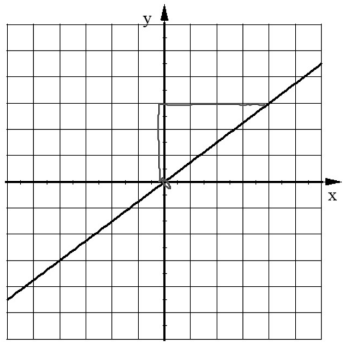
For 4 to 7 write the equation of each line.

4.



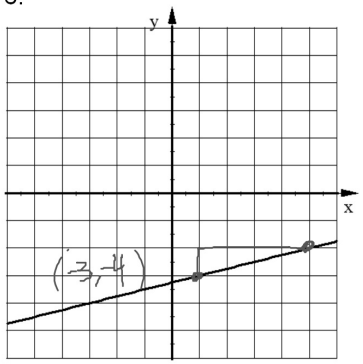
$y = -3x + 3$

5.



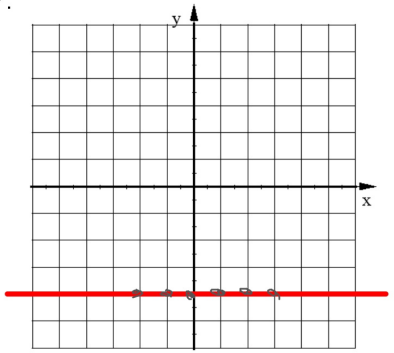
$y = \frac{3}{4}x$

6.



$y + 4 = \frac{1}{4}(x + 3)$

7.



$y = mx + b$

$y = 0 - 4$

$y = -4$:)