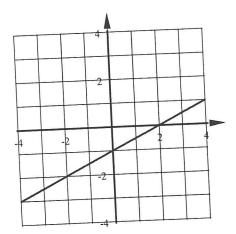
Friday, November 7, 2014 Bellwork Algebra 1

Write the equation of each line in SLOPE-INTERCEPT FORM

- 1. The line has a slope of $-\frac{4}{3}$ and passes through the point (-6,14)
- 2. The line passes through the points (15,-3)&(25,1)

3. Use the line in the graph.



- 4. A pool has 400 gallons of water in it and the owner puts the hose in the pool. Water comes out of the hose at a rate of 3.5 gallons per minute.
- a) Write an equation to model this situation.
- b) Use this equation to predict how much water will be in the pool after $1\frac{1}{2}$ hours.
- c) Use this equation to predict the amount of time it will take until the pool has 1000 gallons of water.

Algebra 1 Bellwork Friday, November 7, 2014 Write the equation of each line in SLOPE-INTERCEPT FORM

Answers

1. The line has a slope of $-\frac{4}{3}$ and passes through the point (-6,14) $4-14=-\frac{4}{3}(\chi+6)$

 $4-14=-\frac{4}{3}(x+6)$ $4-14=-\frac{4}{3}(x+6)$ $4-14=-\frac{4}{3}x-8$ $4-14=-\frac{4}{3}x-8$ $4-14=-\frac{4}{3}x-8$ $4-14=-\frac{4}{3}x-8$

2. The line passes through the points (15,-3)&(25,1)

$$y = \frac{2}{5}x - 9$$

1)
$$M = \frac{1-3}{25-15} = \frac{4}{10} = \frac{2}{5}$$

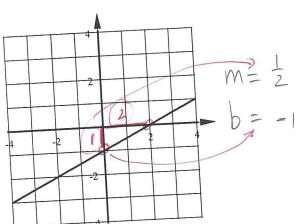
$$y - 1 = \frac{2}{5}(x-25)$$

$$y - 1 = \frac{2}{5}x - 10$$

$$y - 1 = \frac{2}{5}x - 10$$

$$y - 1 = \frac{2}{5}x - 9$$

3. Use the line in the graph.



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

4. A pool has 400 gallons of water in it and the owner puts the hose in the pool. Water comes out of the hose at a rate of 3.5 gallons per minute. $\chi = \pm min$

a) Write an equation to model this situation.

where puts the hose in the positive
$$y = 400$$
 $y = 400$ $y = 400$ in pod

b) Use this equation to predict how much water will be in the pool after $1\frac{1}{2}$ hours.

sequation to predict now much was sequential to predict now much was a sequential to
$$y = 3.5(90) + 400 = 715$$
 g allows $y = 3.5(90) + 400 = 715$ g allows of water.

c) Use this equation to predict the amount of time it will take until the pool has 1000 gallons of water.