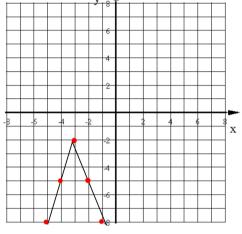
Algebra 1

Bellwork Monday, February 10, 2014

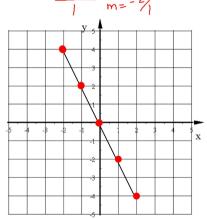
1. Graph using at least 5 points. Make sure the whole graph is shown.

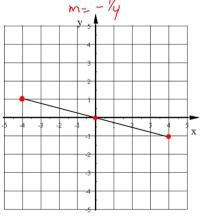
$$y = -3|x + 3| - 2$$

V-shape open down



4. Graph each direct variation must pass through the a) y = -2x b) $y = -\frac{1}{4} \times 0$ origin





2. a) Write a direct variation equation that contains the following point: (4, -10)

3. Is each equation a direct variation?

a) 8+7x-5=-4y+3 7x+3=-4y+3 -y -y $y=\frac{7}{-4}x$ b) 3y+4=2x-4 3y=2x-6 3x=3 3x=3

5. The distance you can travel varies directly with the amount of gas in your tank. You can travel 252 miles if you have 8 gallons of gas.

K= / = 252 mi = 3/5 mpg

a) Model this situation with a direct variation equation.

y=31.5x

b) How many miles can you travel if you have 11 gallons of gas?

y=31.5(1)= 346.5 mi oruse a proportion

c) How many gallons are required to travel 600 miles?

 $600 = 31.5 \times$ $19.05 = \times$ or use a proportion