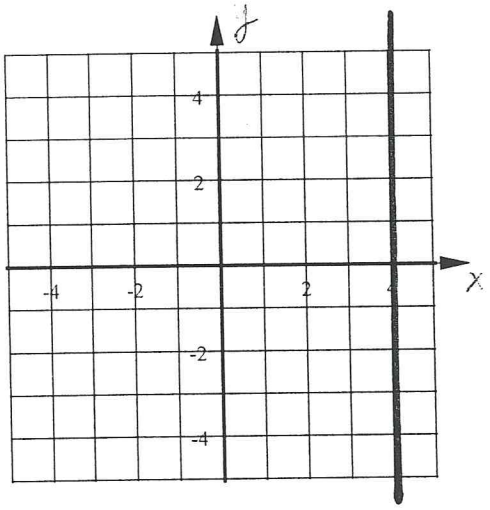
Algebra 1 Bellwork Tuesday, November 11, 2014

For 1-6, write the equation of each line.

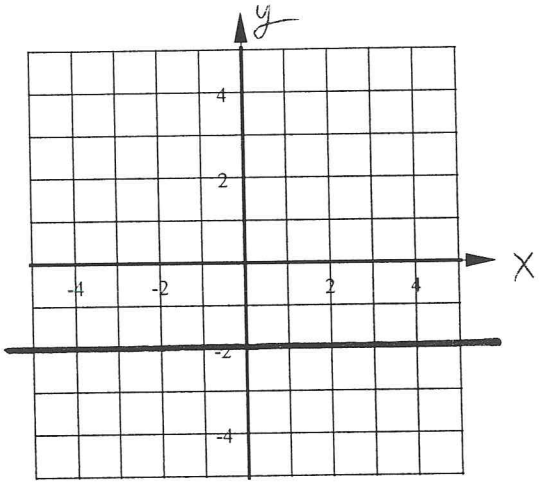
1. The line has a slope of zero and passes through the point $(9,-7)$

2. The line passes through the points $(2,-4)\&(1,-4)$

3. The line in the graph below:



4. The line in the graph below:



5. The line passes through the points $(11,-8)\&(11,3)$

6. The line has an undefined slope and passes through $(1,2)$

For 7 and 8, find the the x and y intercepts of each equation.

7. $10x - 8y = 40$

8. $9x + 12y = 16$

9. Write this equation in Slope-Intercept Form: $-15x - 20y = 40$

Algebra 1 Bellwork Tuesday, November 11, 2014 ANSWERS

For 1-6, write the equation of each line.

1. The line has a slope of zero and passes through the point $(9,-7)$

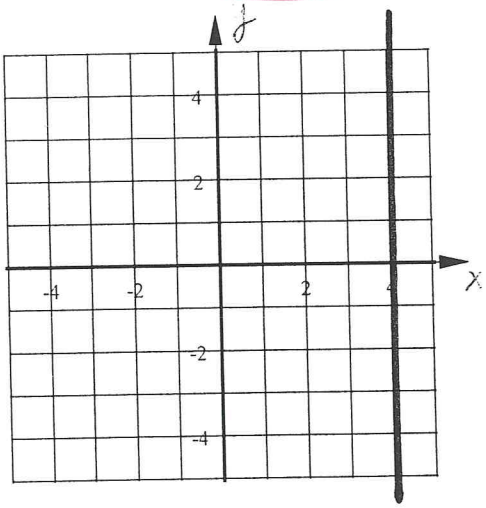
HORIZ $y = -7$

2. The line passes through the points $(2,-4)\&(1,-4)$

HORIZ $y = -4$

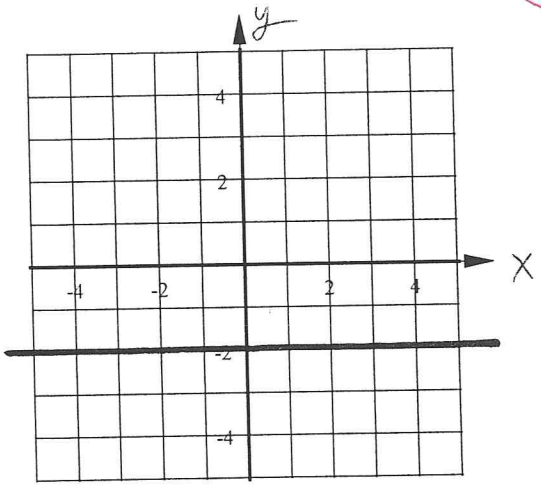
3. The line in the graph below:

VERTICAL → $x = 4$



4. The line in the graph below:

Horizontal → $y = -2$



5. The line passes through the points $(11,-8)\&(11,3)$

Vertical $x = 11$

6. The line has an undefined slope and passes through $(1,2)$

Vertical $x = 1$

For 7 and 8, find the the x and y intercepts of each equation.

7. $10x - 8y = 40$

x-int = $40/10 = 4$

y-int = $\frac{40}{-8} = -5$

8. $9x + 12y = 16$

x-int = $16/9$

y-int = $16/12 = 4/3$

9. Write this equation in Slope-Intercept Form: $-15x - 20y = 40$ $+15x$

$+15x$

$$\frac{-20y}{-20} = \frac{40 + 15x}{-20}$$

$$y = -2 - \frac{3}{4}x$$

or

$$y = -\frac{3}{4}x - 2$$