Algebra 1 Bellwork Thursday, September 18, 2014

Find the slope of the line that connects each pair of points. Where applicable give fractional answers in reduced form.

1. 
$$(10,-3)$$
 &  $(-15,-13)$ 

4. 
$$(5,2)$$
 &  $(-3,2)$ 

Linear Equations:

Slope-Intercept Form:

$$y = mx + b$$

$$y - y_1 = m(x - x_1)$$

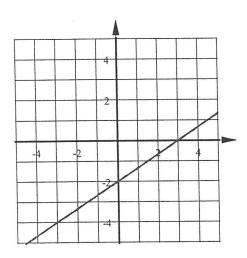
Standard Form:

$$Ax + By = C$$

Write the equation of each line in Slope-Intercept Form:

5. The line in the graph below

6. The line that passes through the two points (2,-7) & (-1,2)



7. Write the equation of the line that is parallel to y = -2x + 5 and passes through the point (-4,9).

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Find the slope of the line that connects each pair of points. Where applicable give fractional answers in reduced form.

$$M = \frac{-3 + 713}{10 + 715} = \frac{10}{25} = (\frac{2}{5})$$

2. 
$$(-9,3)$$
 &  $(-9,8)$   $\frac{5-3}{-9-9} = \frac{5}{0}$ 

3. 
$$(-2,23)$$
 &  $(5,-19)$   

$$M = \frac{23 - -19}{-7} = \frac{42}{-7} = -6$$

4. 
$$(5,2)$$
 &  $(-3,2)$   $\frac{2-2}{5-3} = \frac{0}{8}$ 

Linear Equations:

Slope-Intercept Form:

$$y = mx + b$$

Point-Slope Form:

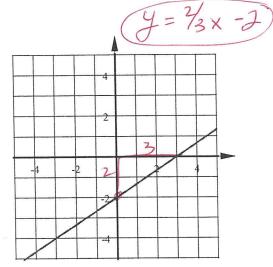
$$y - y_1 = m(x - x_1)$$

Standard Form:

$$= m(x - x_1) Ax + By = C$$

Write the equation of each line in Slope-Intercept Form:

5. The line in the graph below



6. The line that passes through the two points (2,-7) & (-1,2)

$$M = \frac{2 - -7}{-1 - 2} = \frac{9}{-3}$$

$$y+7 = -3(x-2)$$
or
$$y-2 = -3(x+1)$$
or
$$y = -3 \times -1$$

7. Write the equation of the line that is parallel to y = -2x + 5 and passes through the point (-4,9).

Slope must be the same for lines to be parallel M = -2 passes through (-4,9)

