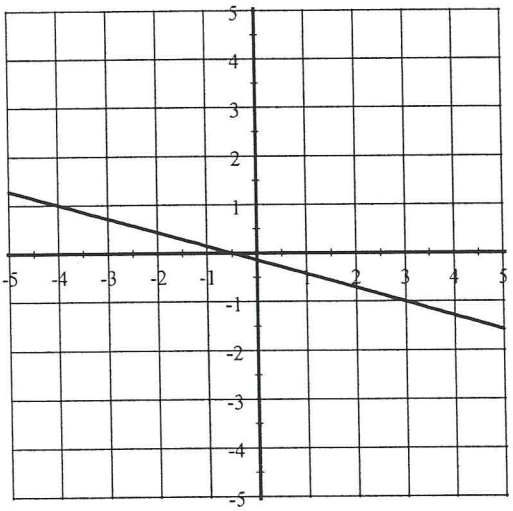
Algebra 1 Bellwork Thursday, November 6, 2014

1. Write the equation, in Point-Slope Form, of the line that passes thorugh this pair of points $(-6,5)$ and $(-2,-9)$

EQ:

2. Write the equation, in Point-Slope Form, of the line shown in the graph below.

EQ:



3. Use this equation of a line in Point-Slope Form: $y+4=2(x-6)$

State the slope of the line: $m=$

Identify the coordinates of the point that was used to write this equation: (,)

4. Rewrite each eqation into Slope-Intercept Form (don't use any rounded decimals)

a) $y-8=-\frac{2}{3}(x+12)$

b) $y+9=\frac{5}{7}(x-4)$

Algebra 1 Bellwork Thursday, November 6, 2014 Answers

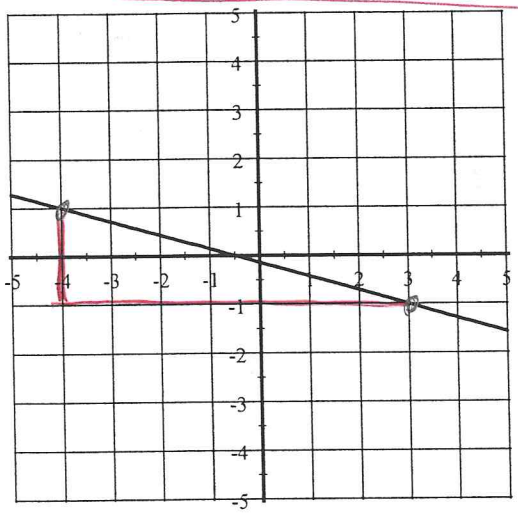
1. Write the equation, in Point-Slope Form, of the line that passes thorugh this pair of points $(-6,5)$ and $(-2,-9)$

$m = \frac{5+9}{-6+2} = \frac{14}{-4} = -7/2$

EQ: $y+9 = -7/2(x+2)$ or $y-5 = -7/2(x+6)$

2. Write the equation, in Point-Slope Form, of the line shown in the graph below.

EQ: $y-1 = -2/7(x+4)$ or $y+1 = -2/7(x-3)$



$m = -2/7$ points $(-4,1)$ & $(3,-1)$

3. Use this equation of a line in Point-Slope Form: $y+4 = 2(x-6)$

State the slope of the line: $m =$ 2

Identify the coordinates of the point that was used to write this equation: (6 , -4)

4. Rewrite each eqation into Slope-Intercept Form (don't use any rounded decimals)

a) $y-8 = -\frac{2}{3}(x+12)$

$y-8 = -2/3x - 8$
$+8 \qquad +8$

$y = -2/3x$

b) $y+9 = \frac{5}{7}(x-4)$

$y+9 = \frac{5}{7}x - \frac{20}{7}$
-9

$-\frac{9}{1} \cdot \frac{7}{7}$

$y = \frac{5}{7}x - \frac{20}{7} - \frac{63}{7}$

$y = \frac{5}{7}x - \frac{83}{7}$