

Name

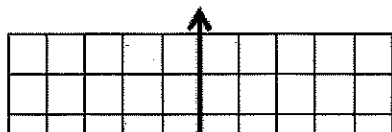
*Kelly*

Date

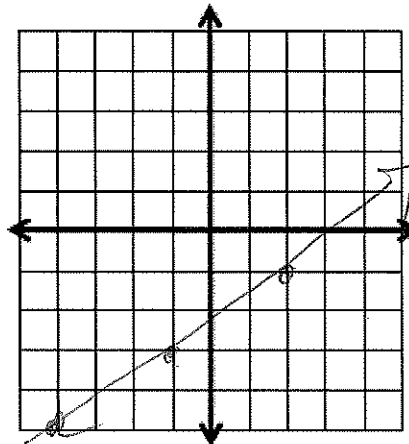
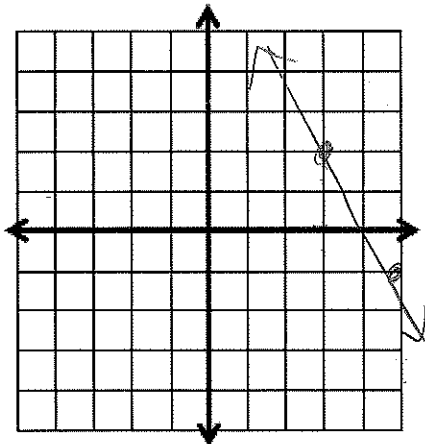
Geometry Graphing Lines HW Unit 1 Day 7

Graph the following:

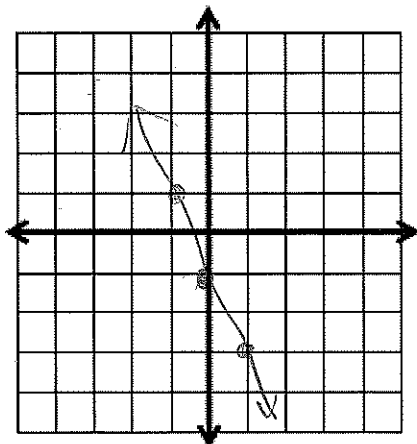
1)  $3x - 2y = 12$



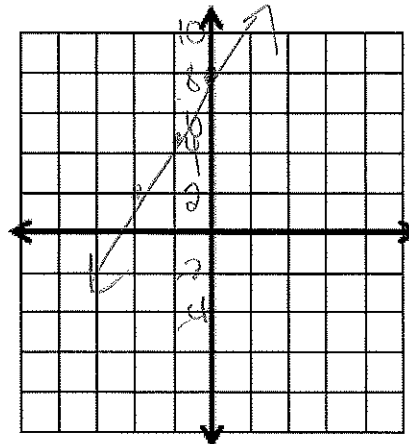
2)  $y - 3 = 3(x + 1)$



5)  $y = -2x - 1$



6)  $y = 3x + 8$



Using the information given, write an equation in standard form, slope-intercept form, and point-slope form. It doesn't matter which order you do this in, but be sure to have all three forms in your answer.

7) Write a linear equation that passes through (5, 2) and (6, 4).

$$m = \frac{4-2}{6-5} = 2$$

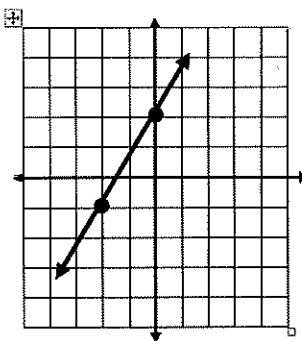
point slope  $y - 2 = 2(x - 5)$   
or  
 $y - 4 = 2(x - 6)$

slope intercept  
 $y = 2x - 8$

standard  
 $2x - y = 8$

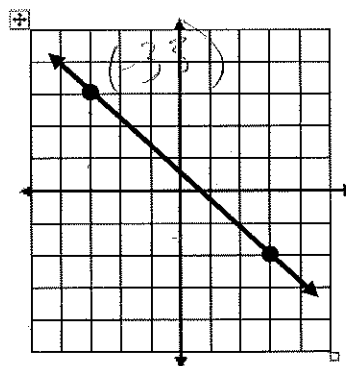
8) Write the equation for this graph in slope intercept form.

$$y = \frac{3}{2}x + 2$$



9) Write the equation for this graph in point slope form.

$m = -\frac{5}{7}$   
 $y - 3 = -\frac{5}{7}(x + 3)$



For 21-23, find the slope and y-intercept of each equation.

21)  $8x - 4y = 24$

$m = 2$   
y int (0, -6)

22)  $y = -5x + 16$

$m = -5$   
y int (0, 16)

23)  $y - 4 = \frac{5}{6}(x + 12)$

$m = 5/6$   
y int (0, 14)