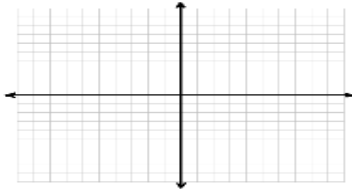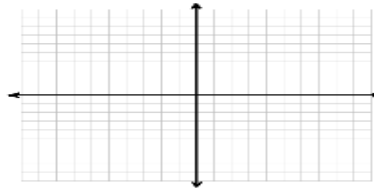**Math 1215   Hw 3   Name …………………..**

Find equation in slope intercept form and graph:

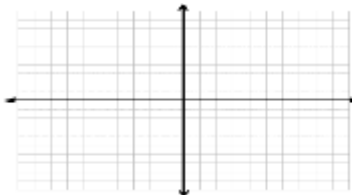1) $(3,-2)(-6,-8)$ 2) $(-6,10)\ (9,-10)$
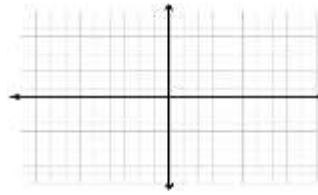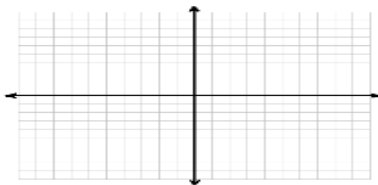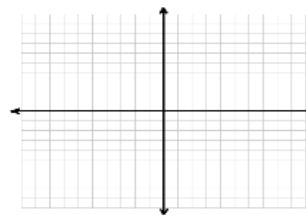
3) m= 4 $(-2,-5)$ 4) $16x -4y =36$

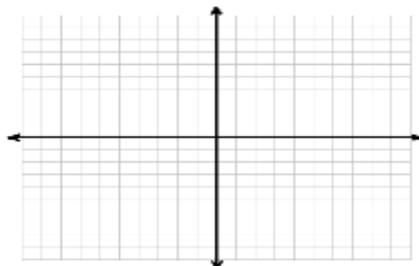5) $8x+24y = 96$ 6) m = undefined $(-6, 5)$
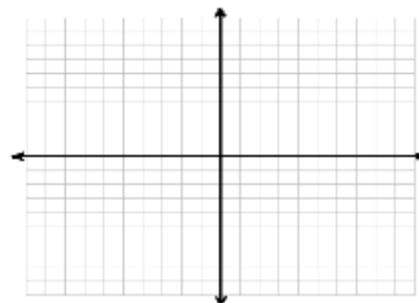
Graph both of the lines on the same set of axis:

7) $y = -2x + 6$ 8) $y = -2x – 5$

9)Use the two points to find the equation of the line. (-5, 13) (3, -3) in slope intercept form.

10) Find the equation of the line parallel to $y = 3x - 2$, passing through (-2, 1).

11) Find the equation of the line perpendicular to $y = 2x - 1$, passing through (4, 5).

12) Julio plans a diet to gain 0.2 kg a day. After 14 days he weighs 40 kg. The number of days he diets and his weight are related.

Identify the variables in this situation: x= _____

y= _____

What is the given information in this problem (find all that apply)?
y-intercept _____   slope _____   one point (,   )

a. Write an equation relating Julio's weight , w, to the number of days, d, on his diet.

b. How long will it take Julio to reach his goal weight of 50 kg?