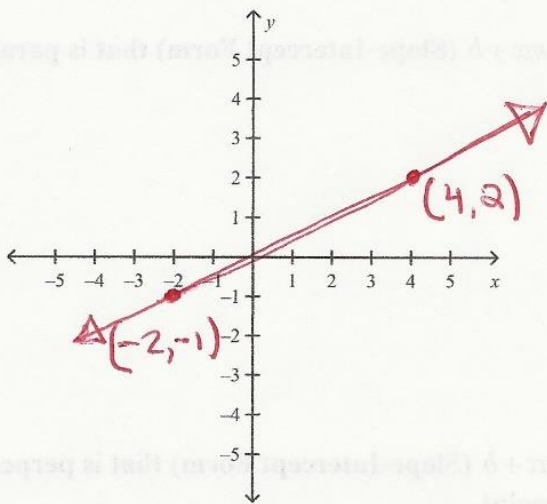
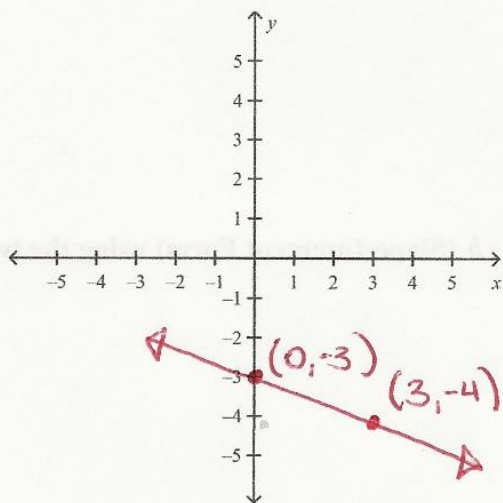


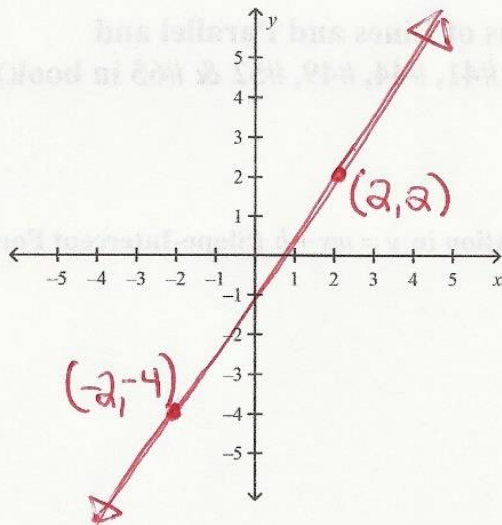
**Lesson #9-2 Assignment-Writing and Creating Equations of Lines and Parallel and Perpendicular Lines**  
 (Reference: Lesson #41, #44, #49, #52 & #65 in book)

**Problem**

1. For each of the following graphs, please create an equation in  $y = mx + b$  (Slope-Intercept Form) that corresponds to information given.



2.



3.

4. For each of the following create an equation in  $y = mx + b$  (Slope-Intercept Form) using the two given points and the Point Slope Formula.

4.  $(2, 4)$  and  $(0, 6)$

5.  $(4, 3)$  and  $(3, 1)$

6.  $(6, -2)$  and  $(8, -3)$

7. For each of the following create an equation in  $y = mx + b$  (Slope-Intercept Form) that is parallel to the given equation and passes through the given point.

7.  $y = -2x - 10$  and passes through  $(2, 4)$

8.  $y = \frac{1}{4}x + 6$  and passes through  $(-8, 3)$

9.  $y = -\frac{1}{3}x + 13$  and passes through  $(9, -1)$

10. For each of the following create an equation in  $y = mx + b$  (Slope-Intercept Form) that is perpendicular to the given equation and passes through the given point.

10.  $y = 2x - 9$  and passes through  $(6, 3)$

11.  $y = \frac{1}{3}x - 5$  and passes through  $(3, -6)$

12.  $y = -\frac{2}{3}x + 8$  and passes through  $(-2, -4)$