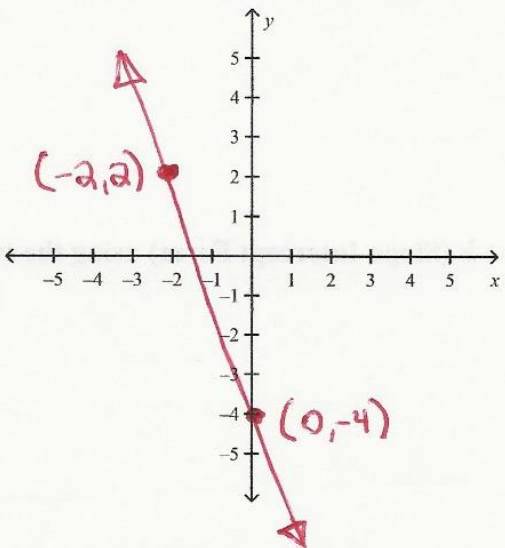
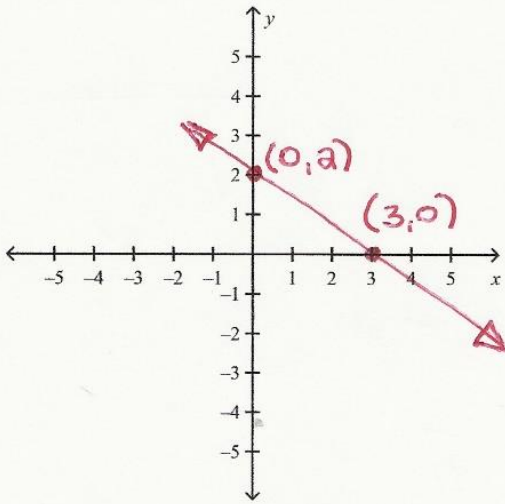


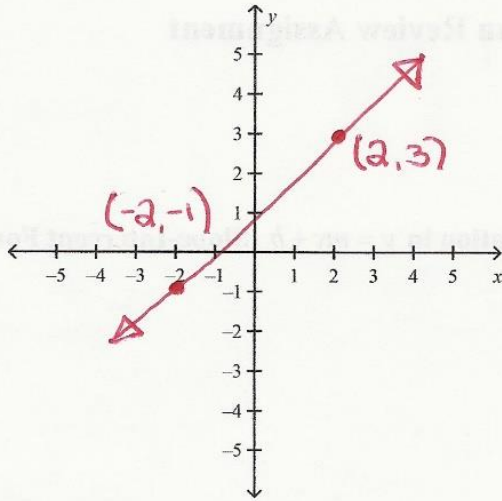
Lesson #9 B: Creating/Writing Equations of Lines Lesson Review Assignment
(Reference: Lesson #41, #44, #49, #52 & #65 in book)

Problem

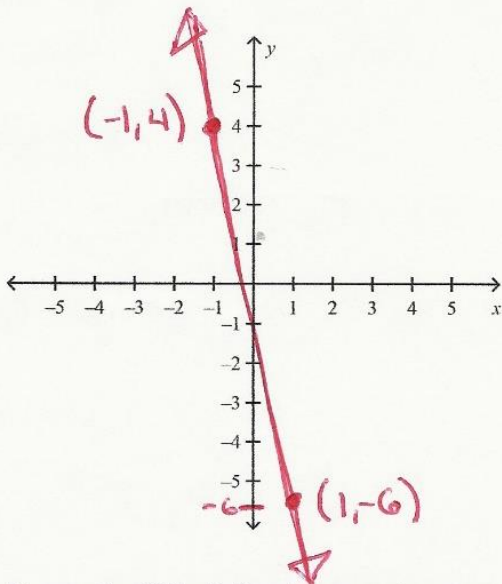
1. For each of the following graphs, please create an equation in $y = mx + b$ (Slope-Intercept Form) that corresponds to information given.



2.



3.



4.

5. 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.

5. (2,1) and (0,4)

6. (3,6) and (5,4)

7. (4,-5) and (6,-4)

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

9. 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.

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

10. $y = \frac{1}{2}x - 4$ and passes through $(-8, 3)$

11. $y = -\frac{1}{3}x - 20$ and passes through $(9, -1)$

12. $y = 4x + 13$ and passes through $(3, 7)$

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

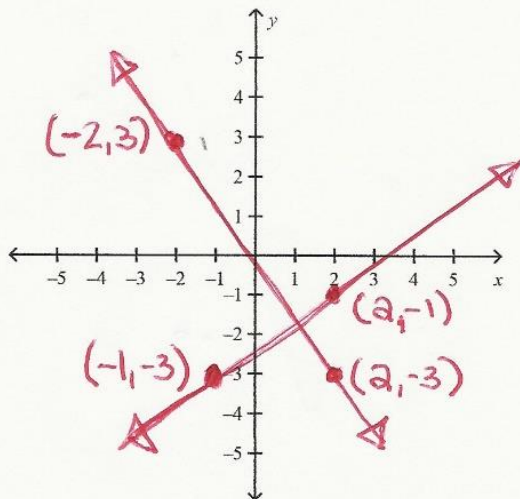
13. $y = 3x - 12$ and passes through $(6, 5)$

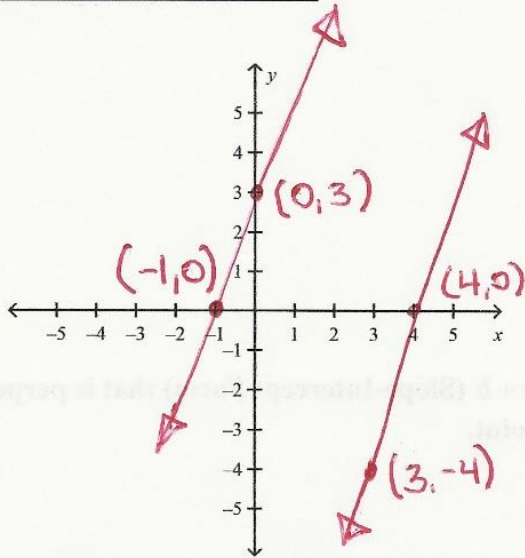
14. $y = -\frac{1}{4}x - 3$ and passes through $(1, -3)$

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

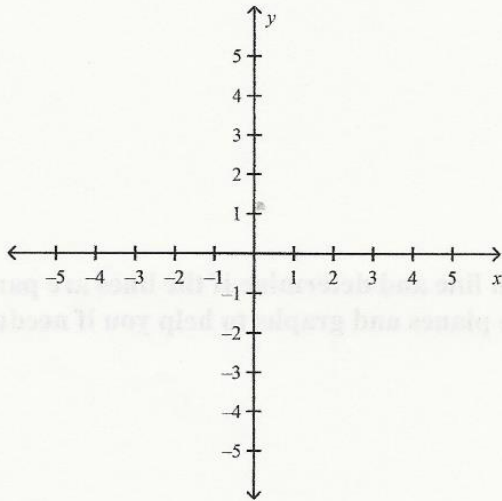
16. $y = -2x - 7$ and passes through $(8, 8)$

17. **For each of the following, figure out the slopes for each line and determine if the lines are parallel, perpendicular, or neither. (You can use the coordinate planes and graphs to help you if needed.)**



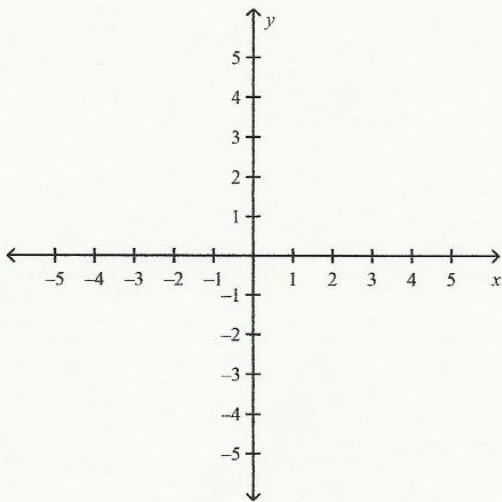


18.



19.

Line #1: (1,3) and (-1,-3)
 Line #2: (-2,-1) and (2,1)



20.

Line #1: (3,4) and (6,5)
 Line #2: (5,3) and (2,2)

Name: _____

ID: A

21. For each of the following problems, tell me whether these equations are parallel, perpendicular, or neither. (HINT: Solve them each for y and get them into $y = mx + b$ form.)

21. $x + y = 6$

$x + y = 1$

22. $2x + 3y = 6$

$4x + 6y = 12$

23. $3x - y = 4$

$6x - 2y = -12$

24. $3x - 7y = 35$

$7x - 3y = -6$