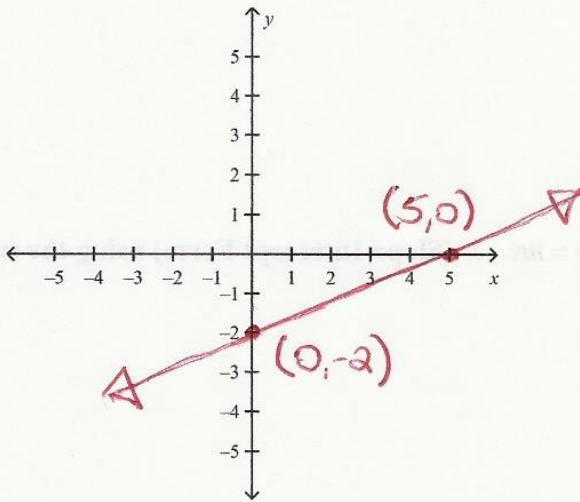
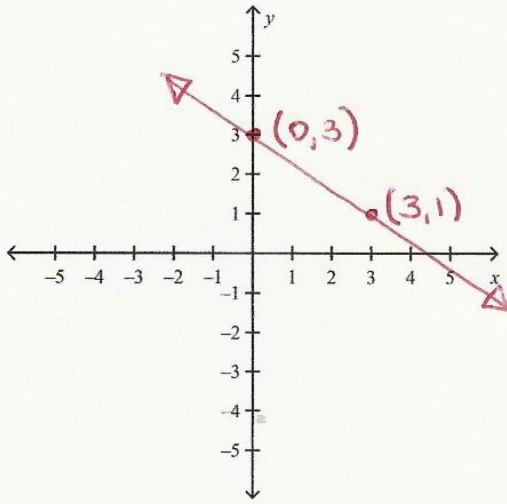


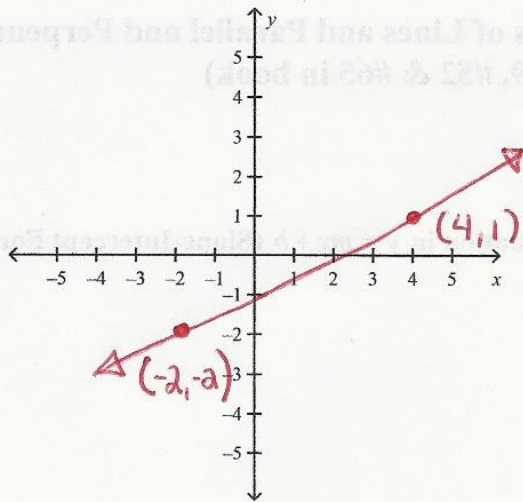
Lesson #9 Assignment-Writing and Creating Equations of Lines and Parallel and Perpendicular Lines
 (Reference: Lesson #41, #44, #49, #52 & #65 in book)

Problem

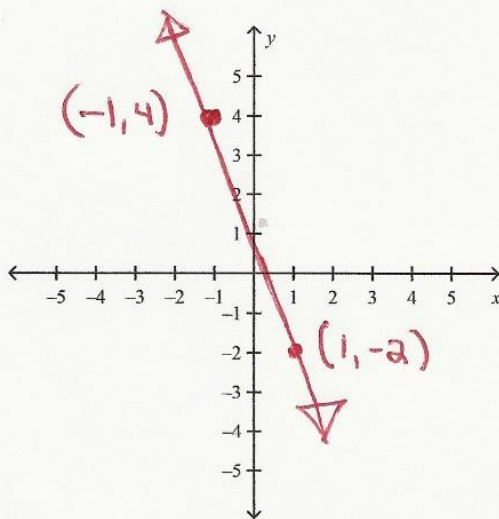
1. For each of the following graphs, please create an equation in $y = mx + b$ (Slope-Intercept Form) that corresponds to information given.



2.



3.



4.

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

6. $(4, 1)$ and $(6, 3)$

7. $(2, 5)$ and $(6, 7)$

8. $(1, 7)$ and $(3, 1)$

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. $y = 3x - 7$ and passes through $(1, 2)$

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10. $y = -\frac{1}{3}x - 5$ and passes through (9,-4)

11. $y = -4x + 13$ and passes through (2,8)

12. $y = \frac{3}{5}x - 4$ and passes through (5,6)

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. $y = -2x - 8$ and passes through (-4,3)

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

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

16. $y = 3x + 2$ and passes through (9,4)