

Algebra 2 - Chapter 3 - Systems of Equations

Complete all work on a separate sheet of paper. All graphs need to be on graph paper.

**Reteaching 3-1** – Solve each system by **graphing**.

1. 
$$\begin{cases} 3x + y = 6 \\ y = 3 \end{cases}$$

2. 
$$\begin{cases} -2x + y + 3 = 0 \\ x - 1 = y \end{cases}$$

3. 
$$\begin{cases} x + y = 3 \\ y = 3x - 1 \end{cases}$$

4. 
$$\begin{cases} y = 1 - x \\ 2x + y = 4 \end{cases}$$

5. 
$$\begin{cases} -x + 2y = 2 \\ 3x + 2y = -6 \end{cases}$$

6. 
$$\begin{cases} -x + y = -2 \\ -2x + 3y = -3 \end{cases}$$

**Do page 126 #1-12.**

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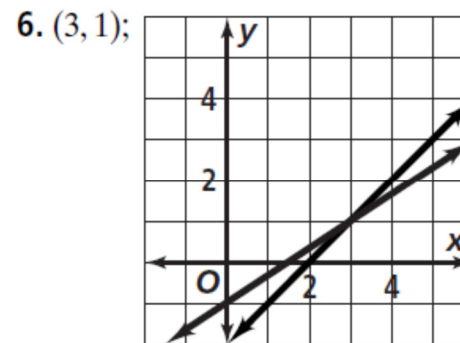
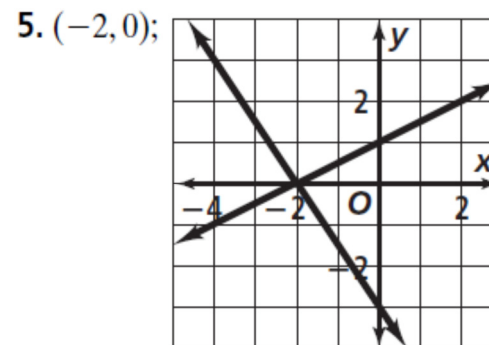
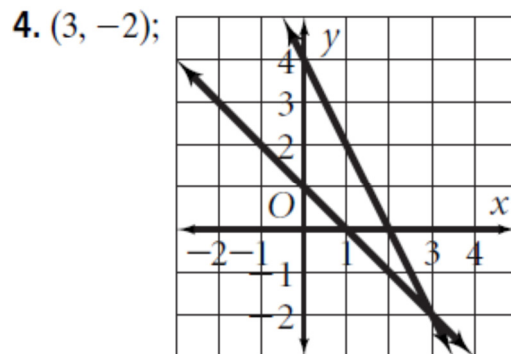
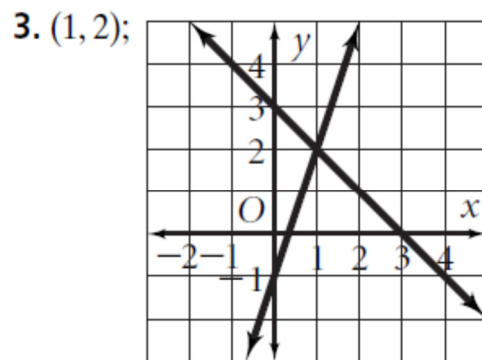
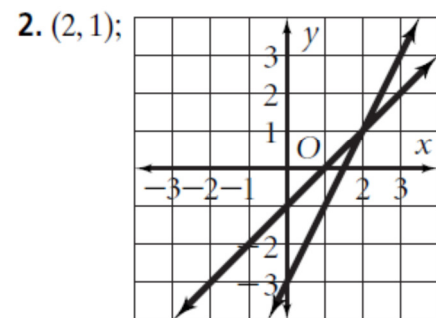
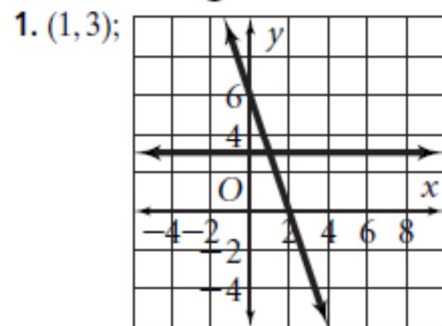
**Do page 126 #1-12.**

# Answers

## Practice 3-1

1. Independent 2. Inconsistent 3. Dependent  
 4. Independent 5. Dependent 6. Independent  
 7. Independent 8. Inconsistent 9. Independent  
 10. Inconsistent 11. Independent 12. Dependent  
 13a. Income:  $y = 2000x - 500$ , where  $x = 1$  represents May;  
 Expenses:  $y = -2600x + 24000$ , where  $x = 1$  represents May  
 13b. October (the sixth month) 14. (6, 4) 15. (5, 2)  
 16. (12, 1) 17. (2, 1) 18. (1, -2) 19. (2, 3) 20. (-4, 0)  
 21. (-1, 3) 22.  $(\frac{3}{2}, -4)$  23. (-8, -1) 24. (2, 2)  
 25. (5, 1)

## Reteaching 3-1



## Practice 3-2

1. (6, 4) 2. (4, 1) 3. (5, 2) 4. (1, 2) 5. (4, 3) 6.  $(5, -\frac{1}{5})$   
 7. (1, 1) 8. (2, -2) 9. (5, -2) 10.  $C = 525 + 150p$ ;  
 $I = 325p$ ; three performances 11. (2, 3) 12. (4, 6)  
 13. (0, 3) 14. (-3, 5) 15. (4, 1) 16. (6, 3) 17. (2, -2)  
 18. (3, 0) 19. (-4, -4) 20.  $8r + 1g = 4.60$ ,  
 $6r + 3g = 4.80$ , where  $r$  represents number of oranges and  
 $g$  represents number of grapefruits; oranges = \$.50,  
 grapefruits = \$.60 21. (1, 4) 22. (-2, 3) 23. (0, 3)  
 24. (1, -2) 25.  $\{(x, y): y = -\frac{1}{5}x + \frac{1}{5}\}$  26. (-4, 5)  
 27. (-3, 2) 28. No solution 29. (2.25, 0)