

**Practice 7-3****Solving Systems Using Elimination**

Solve by elimination. Show your work.

$$\begin{array}{l} 1. \quad x + 2y = 7 \\ \quad 3x - 2y = -3 \end{array}$$

$$\begin{array}{l} 4. \quad 2x + 5y = -1 \\ \quad 3x + 2y = 0 \end{array}$$

$$\begin{array}{l} 7. \quad 9x - 3y = 24 \\ \quad 7x - 3y = 20 \end{array}$$

$$\begin{array}{l} 10. \quad 4x - y = 6 \\ \quad 3x + 2y = 21 \end{array}$$

$$\begin{array}{l} 13. \quad 2x - 3y = -11 \\ \quad 3x + 2y = 29 \end{array}$$

$$\begin{array}{l} 16. \quad -2x + 3y = -9 \\ \quad x + 3y = 3 \end{array}$$

$$\begin{array}{l} 19. \quad -2x + 3y = 25 \\ \quad -2x + 6y = 58 \end{array}$$

$$\begin{array}{l} 22. \quad -x + 8y = -32 \\ \quad 3x - y = 27 \end{array}$$

$$\begin{array}{l} 25. \quad 6x + 3y = 0 \\ \quad -3x + 3y = 9 \end{array}$$

$$\begin{array}{l} 28. \quad 4x - 7y = -15 \\ \quad -4x - 3y = -15 \end{array}$$

$$\begin{array}{l} 31. \quad x + 8y = 28 \\ \quad -3x + 5y = 3 \end{array}$$

$$\begin{array}{l} 34. \quad -6x + 12y = 120 \\ \quad 5x - 6y = -48 \end{array}$$

$$\begin{array}{l} 37. \quad 6x + 3y = 27 \\ \quad -4x + 7y = 27 \end{array}$$

$$\begin{array}{l} 40. \quad 2x + 8y = -42 \\ \quad -x + 8y = -63 \end{array}$$

$$\begin{array}{l} 43. \quad 8x - 2y = 58 \\ \quad 6x - 2y = 40 \end{array}$$

$$\begin{array}{l} 2. \quad 3x + y = 20 \\ \quad x + y = 12 \end{array}$$

$$\begin{array}{l} 5. \quad 3x + 6y = 6 \\ \quad 2x - 3y = 4 \end{array}$$

$$\begin{array}{l} 8. \quad 2x + 7y = 5 \\ \quad 2x + 3y = 9 \end{array}$$

$$\begin{array}{l} 11. \quad x + 2y = 9 \\ \quad 3x + 2y = 7 \end{array}$$

$$\begin{array}{l} 14. \quad 8x - 9y = 19 \\ \quad 4x + y = -7 \end{array}$$

$$\begin{array}{l} 17. \quad 4x - 3y = 11 \\ \quad 3x - 5y = -11 \end{array}$$

$$\begin{array}{l} 20. \quad 3x + 8y = 81 \\ \quad 5x - 6y = -39 \end{array}$$

$$\begin{array}{l} 23. \quad 2x + 7y = -7 \\ \quad 5x + 7y = 14 \end{array}$$

$$\begin{array}{l} 26. \quad 7x + 3y = 25 \\ \quad -2x - y = -8 \end{array}$$

$$\begin{array}{l} 29. \quad 5x + 7y = -1 \\ \quad 4x - 2y = 22 \end{array}$$

$$\begin{array}{l} 32. \quad 8x - 6y = -122 \\ \quad -4x + 6y = 94 \end{array}$$

$$\begin{array}{l} 35. \quad -x + 3y = 5 \\ \quad -x - 3y = 1 \end{array}$$

$$\begin{array}{l} 38. \quad 6x - 8y = 40 \\ \quad 5x + 8y = 48 \end{array}$$

$$\begin{array}{l} 41. \quad 5x + 9y = 112 \\ \quad 3x - 2y = 8 \end{array}$$

$$\begin{array}{l} 44. \quad 7x - 9y = -57 \\ \quad -7x + 10y = 68 \end{array}$$

$$\begin{array}{l} 3. \quad 5x + 7y = 77 \\ \quad 5x + 3y = 53 \end{array}$$

$$\begin{array}{l} 6. \quad 2x + y = 3 \\ \quad -2x + y = 1 \end{array}$$

$$\begin{array}{l} 9. \quad x + y = 30 \\ \quad x - y = 6 \end{array}$$

$$\begin{array}{l} 12. \quad 3x + 5y = 10 \\ \quad x - 5y = -10 \end{array}$$

$$\begin{array}{l} 15. \quad 2x + 6y = 0 \\ \quad -2x - 5y = 0 \end{array}$$

$$\begin{array}{l} 18. \quad 3x + 7y = 48 \\ \quad 5x - 7y = -32 \end{array}$$

$$\begin{array}{l} 21. \quad 8x + 13y = 179 \\ \quad 2x - 13y = -69 \end{array}$$

$$\begin{array}{l} 24. \quad x + 6y = 48 \\ \quad -x + y = 8 \end{array}$$

$$\begin{array}{l} 27. \quad 3x - 8y = 32 \\ \quad -x + 8y = -16 \end{array}$$

$$\begin{array}{l} 30. \quad 6x - 3y = 69 \\ \quad 7x - 3y = 76 \end{array}$$

$$\begin{array}{l} 33. \quad 2x + 9y = 36 \\ \quad 2x - y = 16 \end{array}$$

$$\begin{array}{l} 36. \quad 10x - 4y = 6 \\ \quad 10x + 3y = 13 \end{array}$$

$$\begin{array}{l} 39. \quad 3x + y = 27 \\ \quad -3x + 4y = -42 \end{array}$$

$$\begin{array}{l} 42. \quad -3x + 2y = 0 \\ \quad -3x + 5y = 9 \end{array}$$

$$\begin{array}{l} 45. \quad 9x + 3y = 2 \\ \quad -9x - y = 0 \end{array}$$

46. Shopping at Savers Mart, Lisa buys her children four shirts and three pairs of pants for \$85.50. She returns the next day and buys three shirts and five pairs of pants for \$115.00. What is the price of each shirt and each pair of pants?

47. Grandma's Bakery sells single-crust apple pies for \$6.99 and double-crust cherry pies for \$10.99. The total number of pies sold on a busy Friday was 36. If the amount collected for all the pies that day was \$331.64, how many of each type were sold?