

Practice 6–3**Solving Systems Using Elimination**

Solve by elimination. Show your work.

$$3x - 2y = -3$$

$$x + y = 12$$

$$5x + 3y = 53$$

4.
$$\begin{aligned} 2x + 5y &= -1 \\ x + 2y &= 0 \end{aligned}$$

5.
$$\begin{aligned} 3x + 6y &= 6 \\ 2x - 3y &= 4 \end{aligned}$$

6.
$$\begin{aligned} 2x + y &= 3 \\ -2x + y &= 1 \end{aligned}$$

7.
$$\begin{aligned} 9x - 3y &= 24 \\ 7x - 3y &= 20 \end{aligned}$$

8.
$$\begin{aligned} 2x + 7y &= 5 \\ 2x + 3y &= 9 \end{aligned}$$

9.
$$\begin{aligned} x + y &= 30 \\ x - y &= 6 \end{aligned}$$

10.
$$\begin{aligned} 4x - y &= 6 \\ 3x + 2y &= 21 \end{aligned}$$

11.
$$\begin{aligned} x + 2y &= 9 \\ 3x + 2y &= 7 \end{aligned}$$

12.
$$\begin{aligned} 3x + 5y &= 10 \\ x - 5y &= -10 \end{aligned}$$

13.
$$\begin{aligned} 2x - 3y &= -11 \\ 3x + 2y &= 29 \end{aligned}$$

14.
$$\begin{aligned} 8x - 9y &= 19 \\ 4x + y &= -7 \end{aligned}$$

15.
$$\begin{aligned} 2x + 6y &= 0 \\ -2x - 5y &= 0 \end{aligned}$$

16.
$$\begin{aligned} -2x + 3y &= -9 \\ x + 3y &= 3 \end{aligned}$$

17.
$$\begin{aligned} 4x - 3y &= 11 \\ 3x - 5y &= -11 \end{aligned}$$

18.
$$\begin{aligned} 3x + 7y &= 48 \\ 5x - 7y &= -32 \end{aligned}$$

19.
$$\begin{aligned} -2x + 3y &= 25 \\ -2x + 6y &= 58 \end{aligned}$$

20.
$$\begin{aligned} 3x + 8y &= 81 \\ 5x - 6y &= -39 \end{aligned}$$

21.
$$\begin{aligned} 8x + 13y &= 179 \\ 2x - 13y &= -69 \end{aligned}$$

22.
$$\begin{aligned} -x + 8y &= -32 \\ 3x - y &= 27 \end{aligned}$$

23.
$$\begin{aligned} 2x + 7y &= -7 \\ 5x + 7y &= 14 \end{aligned}$$

24.
$$\begin{aligned} x + 6y &= 48 \\ -x + y &= 8 \end{aligned}$$

25.
$$\begin{aligned} 6x + 3y &= 0 \\ -3x + 3y &= 9 \end{aligned}$$

26.
$$\begin{aligned} 7x + 3y &= 25 \\ -2x - y &= -8 \end{aligned}$$

27.
$$\begin{aligned} 3x - 8y &= 32 \\ -x + 8y &= -16 \end{aligned}$$

28.
$$\begin{aligned} 4x - 7y &= -15 \\ -4x - 3y &= -15 \end{aligned}$$

29.
$$\begin{aligned} 5x + 7y &= -1 \\ 4x - 2y &= 22 \end{aligned}$$

30.
$$\begin{aligned} 6x - 3y &= 69 \\ 7x - 3y &= 76 \end{aligned}$$

31.
$$\begin{aligned} x + 8y &= 28 \\ -3x + 5y &= 3 \end{aligned}$$

32.
$$\begin{aligned} 8x - 6y &= -122 \\ -4x + 6y &= 94 \end{aligned}$$

33.
$$\begin{aligned} 2x + 9y &= 36 \\ 2x - y &= 16 \end{aligned}$$

34.
$$\begin{aligned} -6x + 12y &= 120 \\ 5x - 6y &= -48 \end{aligned}$$

35.
$$\begin{aligned} -x + 3y &= 5 \\ -x - 3y &= 1 \end{aligned}$$

36.
$$\begin{aligned} 10x - 4y &= 6 \\ 10x + 3y &= 13 \end{aligned}$$

37.
$$\begin{aligned} 6x + 3y &= 27 \\ -4x + 7y &= 27 \end{aligned}$$

38.
$$\begin{aligned} 6x - 8y &= 40 \\ 5x + 8y &= 48 \end{aligned}$$

39.
$$\begin{aligned} 3x + y &= 27 \\ -3x + 4y &= -42 \end{aligned}$$

40.
$$\begin{aligned} 2x + 8y &= -42 \\ -x + 8y &= -63 \end{aligned}$$

41.
$$\begin{aligned} 5x + 9y &= 112 \\ 3x - 2y &= 8 \end{aligned}$$

42.
$$\begin{aligned} -3x + 2y &= 0 \\ -3x + 5y &= 9 \end{aligned}$$

43.
$$\begin{aligned} 8x - 2y &= 58 \\ 6x - 2y &= 40 \end{aligned}$$

44.
$$\begin{aligned} 7x - 9y &= -57 \\ -7x + 10y &= 68 \end{aligned}$$

45.
$$\begin{aligned} 9x + 3y &= 2 \\ -9x - y &= 0 \end{aligned}$$

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?