

## Extra Practice

### Lesson 7-3

(pages 382–386)

Use elimination to solve each system of equations.

1.  $x + y = 7$   
 $x - y = 9$  **(8, -1)**

4.  $s + 2t = 6$   
 $3s - 2t = 2$  **(2, 2)**

7.  $x - y = 3$   
 $x + y = 3$  **(3, 0)**

10.  $-6x + 16y = -8$   
 $6x - 42 = 16y$  **no solution**

13.  $x = y$   
 $x + y = 7$  **(3.5, 3.5)**

2.  $2x - y = 32$   
 $2x + y = 60$  **(23, 14)**

5.  $x = y - 7$   
 $2x - 5y = -2$  **(-11, -4)**

8.  $x + y = 8$   
 $2x - y = 6$  **( $\frac{14}{3}$ ,  $\frac{10}{3}$ )**

11.  $3x + 0.2y = 7$   
 $3x = 0.4y + 4$  **(2, 5)**

14.  $4x - \frac{1}{3}y = 8$   
 $5x + \frac{1}{3}y = 6$  **( $\frac{14}{9}$ ,  $-\frac{16}{3}$ )**

3.  $-y + x = 6$   
 $y + x = 5$  **( $\frac{11}{2}$ ,  $-\frac{1}{2}$ )**

6.  $3x + 5y = -16$   
 $3x - 2y = -2$  **(-2, -2)**

9.  $2s - 3t = -4$   
 $s = 7 - 3t$  **(1, 2)**

12.  $9x + 2y = 26$   
 $1.5x - 2y = 13$  **( $\frac{26}{7}$ ,  $-\frac{26}{7}$ )**

15.  $2x - y = 3$   
 $\frac{2}{3}x - y = -1$  **(3, 3)**

### Lesson 7-4

(pages 387–392)

Use elimination to solve each system of equations.

1.  $-3x + 2y = 10$   
 $-2x - y = -5$  **(0, 5)**

4.  $\frac{1}{3}x - y = -1$   
 $\frac{1}{5}x - \frac{2}{5}y = -1$  **(-9, -2)**

7.  $x + 8y = 3$   
 $4x - 2y = 7$  **( $\frac{31}{17}$ ,  $\frac{5}{34}$ )**

10.  $x + 4y = 30$   
 $2x - y = -6$  **( $\frac{2}{3}$ ,  $\frac{22}{3}$ )**

13.  $2x - 7y = 9$   
 $-3x + 4y = 6$  **(-6, -3)**

2.  $2x + 5y = 13$   
 $4x - 3y = -13$  **(-1, 3)**

5.  $3x - 5y = 8$   
 $4x - 7y = 10$  **(6, 2)**

8.  $4x - y = 4$   
 $x + 2y = 3$  **( $\frac{11}{9}$ ,  $\frac{8}{9}$ )**

11.  $3x - 2y = 0$   
 $4x + 4y = 5$  **( $\frac{1}{2}$ ,  $\frac{3}{4}$ )**

14.  $2x - 6y = -16$   
 $5x + 7y = -18$  **(-5, 1)**

3.  $5x + 3y = 4$   
 $-4x + 5y = -18$  **(2, -2)**

6.  $x - 0.5y = 1$   
 $0.4x + y = -2$  **(0, -2)**

9.  $3y - 8x = 9$   
 $y - x = 2$  **( $-\frac{3}{5}$ ,  $\frac{7}{5}$ )**

12.  $9x - 3y = 5$   
 $x + y = 1$  **( $\frac{2}{3}$ ,  $\frac{1}{3}$ )**

15.  $6x - 3y = -9$   
 $-8x + 2y = 4$  **( $\frac{1}{2}$ , 4)**