

3-1 Study Guide and Intervention

Solving Systems of Equations

Exercises

Solve each system of equations.

$$\begin{aligned} 1. \quad & 3x + y = 7 \\ & 4x + 2y = 16 \end{aligned}$$

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

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

$$\begin{aligned} 4. \quad & 2x - y = 7 \\ & 6x - 3y = 14 \end{aligned}$$

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

$$\begin{aligned} 6. \quad & 5x + 2y = 12 \\ & -6x - 2y = -14 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2x + y = 8 \\ & 3x + \frac{3}{2}y = 12 \end{aligned}$$

$$\begin{aligned} 8. \quad & 7x + 2y = -1 \\ & 4x - 3y = -13 \end{aligned}$$

$$\begin{aligned} 9. \quad & 3x + 8y = -6 \\ & x - y = 9 \end{aligned}$$

Solve each system of equations.

$$\begin{aligned} 4. \quad & -r + t = 5 \\ & -2r + t = 4 \end{aligned}$$

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

$$\begin{aligned} 6. \quad & x - 3y = -12 \\ & 2x + y = 11 \end{aligned}$$

$$\begin{aligned} 7. \quad & 2p - 3r = 6 \\ & -2p + 3r = -6 \end{aligned}$$

$$\begin{aligned} 8. \quad & 6w - 8z = 16 \\ & 3w - 4z = 8 \end{aligned}$$

$$\begin{aligned} 9. \quad & c + d = 6 \\ & c - d = 0 \end{aligned}$$

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

$$\begin{aligned} 11. \quad & 3a + b = -1 \\ & -3a + b = 5 \end{aligned}$$

$$\begin{aligned} 12. \quad & 2x + y = 6 \\ & 3x - 2y = 16 \end{aligned}$$

$$\begin{aligned} 13. \quad & 3y - z = -6 \\ & -3y - z = 6 \end{aligned}$$

$$\begin{aligned} 14. \quad & c + 2d = -2 \\ & -2c - 5d = 3 \end{aligned}$$

$$\begin{aligned} 15. \quad & 3r - 2t = 1 \\ & 2r - 3t = 9 \end{aligned}$$