

## Solving Systems of Equations by Elimination

Date \_\_\_\_\_ Block \_\_\_\_\_

**Solve each system by elimination.**

$$\begin{aligned} 1) \quad & -8x + 9y = 9 \\ & -10x - 9y = -9 \end{aligned}$$

$$\begin{aligned} 2) \quad & -4x - 5y = -5 \\ & 4x + 9y = 25 \end{aligned}$$

$$\begin{aligned} 3) \quad & -x - 3y = 6 \\ & x + 8y = -16 \end{aligned}$$

$$\begin{aligned} 4) \quad & -2x + 5y = -22 \\ & 5x - 5y = 25 \end{aligned}$$

$$\begin{aligned} 5) \quad & -x - 4y = -2 \\ & 8x + 32y = -16 \end{aligned}$$

$$\begin{aligned} 6) \quad & 7x - 14y = -21 \\ & -4x + 7y = 6 \end{aligned}$$

$$\begin{aligned} 7) \quad & 9x + 3y = -18 \\ & 3x + y = -6 \end{aligned}$$

$$\begin{aligned} 8) \quad & -4x + 5y = -5 \\ & -9x - 10y = 10 \end{aligned}$$

$$\begin{aligned} 9) \quad & -4y = 2 + 2x \\ & 2y + 5x = -21 \end{aligned}$$

$$\begin{aligned} 10) \quad & 0 = -18x + 8 - 7y \\ & -27x - 24y = 42 \end{aligned}$$

$$\begin{aligned} 11) \quad & -4x - 4y = 24 \\ & 7x + 3y = -18 \end{aligned}$$

$$\begin{aligned} 12) \quad & 10x + 10y = 2 \\ & 4x + 4y = 4 \end{aligned}$$

## Answers to Solving Systems of Equations by Elimination (ID: 1)

- |                 |              |                                 |               |
|-----------------|--------------|---------------------------------|---------------|
| 1) $(0, 1)$     | 2) $(-5, 5)$ | 3) $(0, -2)$                    | 4) $(1, -4)$  |
| 5) No solution  | 6) $(9, 6)$  | 7) Infinite number of solutions |               |
| 8) $(0, -1)$    | 9) $(-5, 2)$ | 10) $(2, -4)$                   | 11) $(0, -6)$ |
| 12) No solution |              |                                 |               |