

## Solve Systems by Elimination

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each system by elimination.**

1) 
$$\begin{aligned} -2x - 4y &= -18 \\ 2x - 8y &= 18 \end{aligned}$$

2) 
$$\begin{aligned} -7x + 4y &= -6 \\ 5x - 4y &= -6 \end{aligned}$$

3) 
$$\begin{aligned} 5x + 7y &= -2 \\ 5x - 6y &= 11 \end{aligned}$$

4) 
$$\begin{aligned} 2x + 3y &= 8 \\ 2x + 10y &= 8 \end{aligned}$$

5) 
$$\begin{aligned} 4x - 14y &= 24 \\ -x - 7y &= 15 \end{aligned}$$

6) 
$$\begin{aligned} 6x + 6y &= 18 \\ 2x + 2y &= 6 \end{aligned}$$

7) 
$$\begin{aligned} -9x + 3y &= -30 \\ 3x + y &= 2 \end{aligned}$$

8) 
$$\begin{aligned} -7x + 6y &= -14 \\ -6x + 2y &= -12 \end{aligned}$$

9) 
$$\begin{aligned} 30x + 40y &= 20 \\ 12x + 16y &= 4 \end{aligned}$$

10) 
$$\begin{aligned} 7x + 2y &= 17 \\ -4x - 9y &= 6 \end{aligned}$$

## Answers to Solve Systems by Elimination (ID: 1)

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