

**Elimination**

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**Solve each system by elimination.**

1) 
$$\begin{aligned} -2x - 7y &= -1 \\ -5x + 7y &= -27 \end{aligned}$$

2) 
$$\begin{aligned} 2x - 10y &= -28 \\ -2x + y &= -8 \end{aligned}$$

3) 
$$\begin{aligned} -5x + 7y &= 10 \\ -6x - 7y &= 12 \end{aligned}$$

4) 
$$\begin{aligned} -x - 3y &= 13 \\ -x + 3y &= 7 \end{aligned}$$

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

$$\begin{aligned} 6) \quad -3x - 7y &= -9 \\ -10x - 7y &= 19 \end{aligned}$$

$$\begin{aligned} 7) \quad -4x - 9y &= 3 \\ -4x - 9y &= 16 \end{aligned}$$

$$\begin{aligned} 8) \quad -3x - 5y &= 23 \\ -3x - 2y &= 11 \end{aligned}$$

$$\begin{aligned} 9) \quad & -9x - y = -3 \\ & 18x + 2y = 6 \end{aligned}$$

$$\begin{aligned} 10) \quad & -3x - 12y = 30 \\ & -2x - 3y = 10 \end{aligned}$$

$$\begin{aligned} 11) \quad & -5x + y = -8 \\ & -50x + 10y = -30 \end{aligned}$$

$$\begin{aligned} 12) \quad & 14x - 14y = 28 \\ & 7x - 7y = 7 \end{aligned}$$

$$\begin{aligned} 13) \quad & 10x + 7y = -11 \\ & 9x + 9y = 9 \end{aligned}$$

$$\begin{aligned} 14) \quad & -4x + 2y = 26 \\ & 5x - 5y = -30 \end{aligned}$$

$$\begin{aligned} 15) \quad & 4x + 5y = 15 \\ & -6x - 2y = -28 \end{aligned}$$

$$\begin{aligned} 16) \quad & 9x + 3y = 15 \\ & -10x + 2y = 26 \end{aligned}$$

## Answers to Elimination (ID: 1)

- |                                 |                                 |                |                |
|---------------------------------|---------------------------------|----------------|----------------|
| 1) $(4, -1)$                    | 2) $(6, 4)$                     | 3) $(-2, 0)$   | 4) $(-10, -1)$ |
| 5) Infinite number of solutions | 6) $(-4, 3)$                    | 7) No solution |                |
| 8) $(-1, -4)$                   | 9) Infinite number of solutions | 10) $(-2, -2)$ |                |
| 11) No solution                 | 12) No solution                 | 13) $(-6, 7)$  | 14) $(-7, -1)$ |
| 15) $(5, -1)$                   | 16) $(-1, 8)$                   |                |                |