

4-3 System of Equations - Elimination Method (ver1)_hw

Solve each system by elimination.

$$\begin{aligned} 1) \quad & -x - 2y = 4 \\ & -4x + 2y = 6 \end{aligned}$$

$$\begin{aligned} 2) \quad & -5x - 10y = 10 \\ & 5x + 8y = -12 \end{aligned}$$

$$\begin{aligned} 3) \quad & 3x - y = 8 \\ & 6x + y = 10 \end{aligned}$$

$$\begin{aligned} 4) \quad & 3x + 4y = 8 \\ & -3x - 5y = -13 \end{aligned}$$

$$\begin{aligned} 5) \quad & -7x + 8y = 14 \\ & -7x - 8y = 14 \end{aligned}$$

$$\begin{aligned} 6) \quad & -2x - 3y = 8 \\ & 2x + 3y = -8 \end{aligned}$$

$$\begin{aligned} 7) \quad & 3x + 7y = 14 \\ & -3x - 7y = -18 \end{aligned}$$

$$\begin{aligned} 8) \quad & 10x - 5y = -5 \\ & -10x + 3y = -9 \end{aligned}$$

$$\begin{aligned} 9) \quad & 4y - 2x = -2 \\ & 2x + y = -8 \end{aligned}$$

$$\begin{aligned} 10) \quad & -7x + 8y = 8 \\ & -8y + 5x = -24 \end{aligned}$$

$$\begin{aligned} 11) \quad & -6x - 4y = -12 \\ & -8y + 6x = 12 \end{aligned}$$

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

Answers to 4-3 System of Equations - Elimination Method (ver1)_hw

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