

4-3 System of Equations - Elimination Method (ver2)_hw

Period _____

Solve each system by elimination.

1) $x - 2y = 7$
 $-2x - 4y = 10$

2) $-4x - 2y = -8$
 $x + y = 3$

3) $-2x + 3y = 11$
 $4x + y = -1$

4) $-x + 5y = 7$
 $-4x + y = -10$

5) $-3x - 4y = 4$
 $x - 8y = 8$

6) $x + 3y = 6$
 $4x + 6y = 12$

7) $6x - 3y = 6$
 $-2x - 4y = -12$

8) $-3x - 8y = -1$
 $4x + 4y = 8$

9) $12x - 6y = 6$
 $6x - 5y = 5$

10) $-8x - 4y = -14$
 $4x + 2y = 10$

11) $-12x + 8y = 0$
 $6x - 4y = 0$

12) $5x - 3y = -2$
 $-2x - y = 3$

$$\begin{aligned} 13) \quad & 3x - 2y = 7 \\ & -2x + 3y = -3 \end{aligned}$$

$$\begin{aligned} 14) \quad & -4x - 2y = -10 \\ & 3x + 3y = 3 \end{aligned}$$

$$\begin{aligned} 15) \quad & 3x + 3y = 15 \\ & 2x - 2y = -14 \end{aligned}$$

$$\begin{aligned} 16) \quad & -3x + 2y = -18 \\ & 5x + 3y = -8 \end{aligned}$$

$$\begin{aligned} 17) \quad & -2x - 6y = -8 \\ & -3x + 4y = 1 \end{aligned}$$

$$\begin{aligned} 18) \quad & -2x - 6y = -12 \\ & -3x - 5y = -6 \end{aligned}$$

$$\begin{aligned} 19) \quad & -2x - 3y = -7 \\ & 5x + 4y = -7 \end{aligned}$$

$$\begin{aligned} 20) \quad & 7x + 5y = -24 \\ & 3x - 2y = -2 \end{aligned}$$

$$\begin{aligned} 21) \quad & 3x + 3y = -9 \\ & 2x + 2y = -4 \end{aligned}$$

$$\begin{aligned} 22) \quad & -4x - 2y = -2 \\ & -3x - 3y = 3 \end{aligned}$$

$$\begin{aligned} 23) \quad & -2x - 3y = -5 \\ & -3x - 4y = -7 \end{aligned}$$

$$\begin{aligned} 24) \quad & -2x - 2y = 0 \\ & -3x - 3y = 0 \end{aligned}$$

Answers to System of Equations - Elimination Method (ver2)_hw

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|----------------------------------|-----------------|----------------------------------|---------------|
| 1) $(1, -3)$ | 2) $(1, 2)$ | 3) $(-1, 3)$ | 4) $(3, 2)$ |
| 5) $(0, -1)$ | 6) $(0, 2)$ | 7) $(2, 2)$ | 8) $(3, -1)$ |
| 9) $(0, -1)$ | 10) No solution | 11) Infinite number of solutions | 15) $(-1, 6)$ |
| 12) $(-1, -1)$ | 13) $(3, 1)$ | 14) $(4, -3)$ | 19) $(-7, 7)$ |
| 16) $(2, -6)$ | 17) $(1, 1)$ | 18) $(-3, 3)$ | 23) $(1, 1)$ |
| 20) $(-2, -2)$ | 21) No solution | 22) $(2, -3)$ | |
| 24) Infinite number of solutions | | | |