

4-2 System of Equations - Substitution Method (ver2)_hw

Period _____

Solve each system by substitution.

1)
$$\begin{aligned} -2x - 2y &= 10 \\ y &= 4x \end{aligned}$$

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

3)
$$\begin{aligned} -2x - 2y &= -2 \\ 2x + y &= -1 \end{aligned}$$

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

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

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

$$\begin{aligned} 7) \quad x + 2y &= 12 \\ 4x - 4y &= 0 \end{aligned}$$

$$\begin{aligned} 8) \quad 4x + 2y &= 6 \\ x - 2y &= 9 \end{aligned}$$

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

$$\begin{aligned} 10) \quad -4x + y &= -3 \\ 4x - y &= -1 \end{aligned}$$

$$\begin{aligned} 11) \quad -3x + 3y &= 0 \\ x + 4y &= -5 \end{aligned}$$

$$\begin{aligned} 12) \quad x + 3y &= -10 \\ 2x + 3y &= -11 \end{aligned}$$

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

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