

Solving Systems by Substitution Practice Problems

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Solve each system by substitution.

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

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

$$\begin{aligned} 3) \quad & y = -3x + 5 \\ & -4x - 2y = -6 \end{aligned}$$

$$\begin{aligned} 4) \quad & y = 2x - 7 \\ & -4x - 2y = -10 \end{aligned}$$

$$\begin{aligned} 5) \quad & y = -4x - 6 \\ & -x - 3y = 7 \end{aligned}$$

$$\begin{aligned} 6) \quad & x - 2y = -10 \\ & -4x - 2y = 0 \end{aligned}$$

$$\begin{aligned} 7) \quad & 4x - y = -12 \\ & 3x + y = -2 \end{aligned}$$

$$\begin{aligned} 8) \quad & -4x + y = 8 \\ & -3x - 3y = -9 \end{aligned}$$

$$\begin{aligned} 9) \quad & x - 2y = -1 \\ & -4x + 2y = 4 \end{aligned}$$

$$\begin{aligned} 10) \quad & -x - y = -2 \\ & -x + y = 0 \end{aligned}$$

Answers to

- 1) $(1, -1)$
- 5) $(-1, -2)$
- 9) $(-1, 0)$

- 2) $(-3, 0)$
- 6) $(-2, 4)$
- 10) $(1, 1)$

- 3) $(2, -1)$
- 7) $(-2, 4)$

- 4) $(3, -1)$
- 8) $(-1, 4)$