

Mixed Practice Equality and Substitution

Date _____ Period _____

Solve each system by equality.

$$\begin{aligned} 1) \quad y &= 2x + 6 \\ 4x - 7y &= 8 \end{aligned}$$

$$\begin{aligned} 2) \quad -4 - y &= x \\ y &= -6x + 19 \end{aligned}$$

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

$$\begin{aligned} 4) \quad y &= 4x + 14 \\ -2x - 6y &= -6 \end{aligned}$$

Solve each system by substitution.

$$\begin{aligned} 5) \quad -x + y &= 6 \\ -6x - 5y &= 14 \end{aligned}$$

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

$$\begin{aligned} 7) \quad & 3x - 3y = 3 \\ & x = 5y - 15 \end{aligned}$$

$$\begin{aligned} 8) \quad & x = 14 - 5y \\ & -4x + 6y = -4 \end{aligned}$$

Choose either equality or substitution to solve each system.

$$\begin{aligned} 9) \quad & -7x + 7y = 14 \\ & x - 4y = -14 \end{aligned}$$

$$\begin{aligned} 10) \quad & -8x + 7y = 9 \\ & -x + y = 1 \end{aligned}$$

$$\begin{aligned} 11) \quad & 5x + y = -18 \\ & 6x + 6y = 12 \end{aligned}$$

$$\begin{aligned} 12) \quad & 5x + 8y = 6 \\ & -4x + 8y = 24 \end{aligned}$$

Answers to Mixed Practice Equality and Substitution

1) $(-5, -4)$
5) $(-4, 2)$
9) $(2, 4)$

2) $(3, 1)$
6) $(-7, -1)$
10) $(-2, -1)$

3) $(-6, -4)$
7) $(5, 4)$
11) $(-5, 7)$

4) $(-3, 2)$
8) $(4, 2)$
12) $(-2, 2)$