

Solving Systems by Substitution Homework

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Date_____ Period____

Solve each system by substitution.

1)
$$\begin{aligned}y &= 3x + 13 \\y &= -8x - 9\end{aligned}$$

2)
$$\begin{aligned}y &= -2x - 13 \\y &= x - 4\end{aligned}$$

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

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

5)
$$\begin{aligned}7x + 7y &= 0 \\y &= 2x - 15\end{aligned}$$

6)
$$\begin{aligned}y &= 3x - 14 \\-2x + 7y &= -22\end{aligned}$$

7)
$$\begin{aligned}-3x + 2y &= 1 \\2x + y &= -3\end{aligned}$$

8)
$$\begin{aligned}x + 4y &= -18 \\4x + 5y &= -17\end{aligned}$$

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

$$10) \begin{aligned} 4x - 3y &= 0 \\ y &= 4 \end{aligned}$$

$$11) \begin{aligned} -7x - 7y &= 0 \\ y &= -3x - 6 \end{aligned}$$

$$12) \begin{aligned} -7x + 4y &= 20 \\ y &= -2 \end{aligned}$$

$$13) \begin{aligned} 6x + 8y &= 12 \\ x + 4y &= 10 \end{aligned}$$

$$14) \begin{aligned} -7x - 5y &= -17 \\ x - 8y &= -15 \end{aligned}$$

$$15) \begin{aligned} y &= 4x - 11 \\ y &= x - 2 \end{aligned}$$

$$16) \begin{aligned} y &= 7x - 8 \\ y &= -3x + 2 \end{aligned}$$

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1)
$$\begin{aligned}y &= 3x + 13 \\y &= -8x - 9\end{aligned}$$

(−2, 7)

2)
$$\begin{aligned}y &= -2x - 13 \\y &= x - 4\end{aligned}$$

(−3, −7)

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

(−3, −8)

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

(1, 0)

5)
$$\begin{aligned}7x + 7y &= 0 \\y &= 2x - 15\end{aligned}$$

(5, −5)

6)
$$\begin{aligned}y &= 3x - 14 \\-2x + 7y &= -22\end{aligned}$$

(4, −2)

7)
$$\begin{aligned}-3x + 2y &= 1 \\2x + y &= -3\end{aligned}$$

(−1, −1)

8)
$$\begin{aligned}x + 4y &= -18 \\4x + 5y &= -17\end{aligned}$$

(2, −5)

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

$$\begin{aligned} 10) \quad & 4x - 3y = 0 \\ & y = 4 \\ & (3, 4) \end{aligned}$$

$$\begin{aligned} 11) \quad & -7x - 7y = 0 \\ & y = -3x - 6 \\ & (-3, 3) \end{aligned}$$

$$\begin{aligned} 12) \quad & -7x + 4y = 20 \\ & y = -2 \\ & (-4, -2) \end{aligned}$$

$$\begin{aligned} 13) \quad & 6x + 8y = 12 \\ & x + 4y = 10 \\ & (-2, 3) \end{aligned}$$

$$\begin{aligned} 14) \quad & -7x - 5y = -17 \\ & x - 8y = -15 \\ & (1, 2) \end{aligned}$$

$$\begin{aligned} 15) \quad & y = 4x - 11 \\ & y = x - 2 \\ & (3, 1) \end{aligned}$$

$$\begin{aligned} 16) \quad & y = 7x - 8 \\ & y = -3x + 2 \\ & (1, -1) \end{aligned}$$