

Solving systems - Substitution Method

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Solve each system by substitution. SHOW ALL YOUR WORK.

1) $7x + 4y = 10$
 $y = x - 14$

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

3) $-x + 7y = -17$
 $y = 6x - 20$

4) $y = 4x - 16$
 $-x - 6y = -4$

5) $y = 2x + 6$
 $-3x - 5y = 22$

6) $y = -3x - 16$
 $5x - 2y = -23$

7) $y = 5x - 17$
 $4x - 2y = 22$

8) $y = x + 15$
 $7x + 6y = -14$

9) $y = -2x + 1$
 $-4x - 5y = 1$

10) $5x - 3y = -9$
 $y = 8x + 3$

11) $y = 6x + 15$
 $2x + 7y = 17$

12) $-6x - y = 19$
 $y = -7x - 21$

$$\begin{aligned} 13) \quad & y = x + 4 \\ & -8x + 2y = 2 \end{aligned}$$

$$\begin{aligned} 14) \quad & -4x + 2y = -10 \\ & y = -3x + 5 \end{aligned}$$

$$\begin{aligned} 15) \quad & -4x + 5y = 13 \\ & 7x + y = -13 \end{aligned}$$

$$\begin{aligned} 16) \quad & x - 6y = -20 \\ & 4x - 2y = 8 \end{aligned}$$

$$\begin{aligned} 17) \quad & -3x + y = 7 \\ & -4x + 4y = -12 \end{aligned}$$

$$\begin{aligned} 18) \quad & -6x + 5y = -8 \\ & 2x + y = 24 \end{aligned}$$

$$\begin{aligned} 19) \quad & x - 4y = -2 \\ & 4x - 4y = -20 \end{aligned}$$

$$\begin{aligned} 20) \quad & -6x - 2y = 16 \\ & x + 7y = 4 \end{aligned}$$

$$\begin{aligned} 21) \quad & -4x + y = -10 \\ & 3x + 7y = 23 \end{aligned}$$

$$\begin{aligned} 22) \quad & x - 3y = -16 \\ & 5x + 7y = -14 \end{aligned}$$

$$\begin{aligned} 23) \quad & -8x - 7y = -8 \\ & x - 2y = 1 \end{aligned}$$

$$\begin{aligned} 24) \quad & 6x - 6y = 0 \\ & 3x + y = -12 \end{aligned}$$

$$\begin{aligned} 25) \quad & -4x - 4y = -8 \\ & x + 8y = 16 \end{aligned}$$

$$\begin{aligned} 26) \quad & 6x + 3y = -3 \\ & x - 3y = -4 \end{aligned}$$