

Solving by Comparison & Substitution

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Solve each system by substitution.

1) $y = 3x - 8$
 $y = -5x + 24$

2) $y = 8x - 3$
 $y = -7x - 3$

3) $y = -4x + 12$
 $y = 3x - 16$

4) $y = -4x - 21$
 $y = -3x - 14$

5) $2x - 5y = -3$
 $y = 7x - 6$

6) $y = x + 3$
 $-2x - 3y = -19$

$$\begin{aligned} 7) \quad y &= -3x + 10 \\ 4x + 3y &= 15 \end{aligned}$$

$$\begin{aligned} 8) \quad y &= 5x - 13 \\ 3x - 8y &= -7 \end{aligned}$$

$$\begin{aligned} 9) \quad y &= -4x + 1 \\ y &= -7x + 7 \end{aligned}$$

$$\begin{aligned} 10) \quad y &= 2x + 2 \\ y &= 8x + 14 \end{aligned}$$

$$\begin{aligned} 11) \quad y &= 5x + 18 \\ y &= -3x - 22 \end{aligned}$$

$$\begin{aligned} 12) \quad y &= x - 11 \\ y &= -8 \end{aligned}$$

$$\begin{aligned} 13) \quad y &= 2x - 3 \\ -3x - 3y &= -9 \end{aligned}$$

$$\begin{aligned} 14) \quad y &= -3x - 6 \\ 4x - 4y &= -8 \end{aligned}$$

$$15) \begin{aligned} 2x - 4y &= 16 \\ y &= 5x + 5 \end{aligned}$$

$$16) \begin{aligned} y &= -2x - 1 \\ 2x + 2y &= 0 \end{aligned}$$

$$17) \begin{aligned} y &= -4x + 4 \\ y &= 7x - 18 \end{aligned}$$

$$18) \begin{aligned} y &= 8x - 2 \\ y &= 7x - 2 \end{aligned}$$

$$19) \begin{aligned} y &= -5x - 12 \\ y &= 5x - 2 \end{aligned}$$

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

$$21) \begin{aligned} y &= 3x - 2 \\ 3x - y &= 4 \end{aligned}$$

$$22) \begin{aligned} 6x + 2y &= -26 \\ y &= -3x - 13 \end{aligned}$$

$$\begin{aligned} 23) \quad & -4x - 6y = -24 \\ & y = -5x - 22 \end{aligned}$$

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

$$\begin{aligned} 25) \quad & y = 7x + 24 \\ & 8x - 2y = -24 \end{aligned}$$

$$\begin{aligned} 26) \quad & 2x - 4y = -2 \\ & y = -3x + 4 \end{aligned}$$

$$\begin{aligned} 27) \quad & -7x - y = -14 \\ & y = -2x + 9 \end{aligned}$$

$$\begin{aligned} 28) \quad & -4x - 3y = -6 \\ & y = 2x - 8 \end{aligned}$$

Answers to Solving by Comparison & Substitution (ID: 1)

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|-----------------|----------------------------------|--------------|-------------|
| 1) (4, 4) | 2) (0, -3) | 3) (4, -4) | 4) (-7, 7) |
| 5) (1, 1) | 6) (2, 5) | 7) (3, 1) | 8) (3, 2) |
| 9) (2, -7) | 10) (-2, -2) | 11) (-5, -7) | 12) (3, -8) |
| 13) (2, 1) | 14) (-2, 0) | 15) (-2, -5) | 16) (-1, 1) |
| 17) (2, -4) | 18) (0, -2) | 19) (-1, -7) | 20) (-2, 4) |
| 21) No solution | 22) Infinite number of solutions | 23) (-6, 8) | |
| 24) No solution | 25) (-4, -4) | 26) (1, 1) | 27) (1, 7) |
| 28) (3, -2) | | | |