

Substitution

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Solve each system by substitution.

1) $y = x + 8$
 $y = -2x - 10$

2) $y = -3x - 1$
 $y = 7x + 19$

3) $y = -7x - 20$
 $y = 5x + 4$

4) $y = 5x + 18$
 $y = -4x$

$$\begin{aligned} 5) \quad y &= -5x + 12 \\ 7x + 2y &= 12 \end{aligned}$$

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

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

$$\begin{aligned} 8) \quad -7x - 5y &= 15 \\ y &= 3x + 19 \end{aligned}$$

$$\begin{aligned} 9) \quad & -3x - 5y = -23 \\ & 7x + y = 11 \end{aligned}$$

$$\begin{aligned} 10) \quad & x + 5y = 8 \\ & -x + 7y = 4 \end{aligned}$$

$$\begin{aligned} 11) \quad & y = -1 \\ & -3x - 2y = 17 \end{aligned}$$

$$\begin{aligned} 12) \quad & x + y = 0 \\ & -3x - 5y = 4 \end{aligned}$$

$$\begin{aligned} 13) \quad & 4x - 6y = -14 \\ & 4x + 4y = 16 \end{aligned}$$

$$\begin{aligned} 14) \quad & -8x - y = 1 \\ & -7x - 6y = 6 \end{aligned}$$

$$\begin{aligned} 15) \quad & -4x + 3y = 7 \\ & 6x - 7y = 7 \end{aligned}$$

$$\begin{aligned} 16) \quad & -5x - 7y = -11 \\ & -4x - 6y = -8 \end{aligned}$$

Answers to Substitution (ID: 1)

- 1) $(-6, 2)$
- 5) $(4, -8)$
- 9) $(1, 4)$
- 13) $(1, 3)$

- 2) $(-2, 5)$
- 6) $(-8, 6)$
- 10) $(3, 1)$
- 14) $(0, -1)$

- 3) $(-2, -6)$
- 7) $(-5, -8)$
- 11) $(-5, -1)$
- 15) $(-7, -7)$

- 4) $(-2, 8)$
- 8) $(-5, 4)$
- 12) $(2, -2)$
- 16) $(5, -2)$