

Systems of Equations: Substitution

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Solve each system by substitution.

1) $y = 2x + 2$
 $y = 0$

2) $y = x - 6$
 $y = 8x + 1$

3) $y = -2x + 4$
 $y = 6x - 20$

4) $y = 8$
 $y = x + 1$

5) $y = x - 5$
 $y = -7x + 11$

6) $4x - 4y = 0$
 $y = 2x + 6$

7) $y = -3x - 19$
 $5x + 8y = 0$

8) $y = 5x - 3$
 $-x + 7y = -21$

$$\begin{aligned} 9) \quad & -7x - 2y = 1 \\ & y = -4 \end{aligned}$$

$$\begin{aligned} 10) \quad & y = 4x - 11 \\ & -4x - y = -5 \end{aligned}$$

$$\begin{aligned} 11) \quad & 3x + 4y = 17 \\ & y = -6x - 1 \end{aligned}$$

$$\begin{aligned} 12) \quad & y = x - 12 \\ & 8x + 8y = -16 \end{aligned}$$

$$\begin{aligned} 13) \quad & y = 8x + 13 \\ & -4x - 5y = 23 \end{aligned}$$

$$\begin{aligned} 14) \quad & -3x - y = -17 \\ & y = -4x + 24 \end{aligned}$$

$$\begin{aligned} 15) \quad & 5x + 4y = -12 \\ & y = -2x - 9 \end{aligned}$$

Answers to Systems of Equations: Substitution (ID: 1)

1) $(-1, 0)$

2) $(-1, -7)$

3) $(3, -2)$

4) $(7, 8)$

5) $(2, -3)$

6) $(-6, -6)$

7) $(-8, 5)$

8) $(0, -3)$

9) $(1, -4)$

10) $(2, -3)$

11) $(-1, 5)$

12) $(5, -7)$

13) $(-2, -3)$

14) $(7, -4)$

15) $(-8, 7)$