

Solving Systems of Equations by Substitution

Date_____ Period____

Solve each system by substitution.

1) $y = 6x - 11$
 $-2x - 3y = -7$

2) $2x - 3y = -1$
 $y = x - 1$

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

4) $-3x - 3y = 3$
 $y = -5x - 17$

5) $y = -2$
 $4x - 3y = 18$

6) $y = 5x - 7$
 $-3x - 2y = -12$

7) $-4x + y = 6$
 $-5x - y = 21$

8) $-7x - 2y = -13$
 $x - 2y = 11$

9) $-5x + y = -2$
 $-3x + 6y = -12$

10) $-5x + y = -3$
 $3x - 8y = 24$

$$11) \begin{aligned} x + 3y &= 1 \\ -3x - 3y &= -15 \end{aligned}$$

$$12) \begin{aligned} -3x - 8y &= 20 \\ -5x + y &= 19 \end{aligned}$$

$$13) \begin{aligned} -3x + 3y &= 4 \\ -x + y &= 3 \end{aligned}$$

$$14) \begin{aligned} -3x + 3y &= 3 \\ -5x + y &= 13 \end{aligned}$$

$$15) \begin{aligned} 6x + 6y &= -6 \\ 5x + y &= -13 \end{aligned}$$

$$16) \begin{aligned} 2x + y &= 20 \\ 6x - 5y &= 12 \end{aligned}$$

$$17) \begin{aligned} -3x - 4y &= 2 \\ 3x + 3y &= -3 \end{aligned}$$

$$18) \begin{aligned} -2x + 6y &= 6 \\ -7x + 8y &= -5 \end{aligned}$$

$$19) \begin{aligned} -5x - 8y &= 17 \\ 2x - 7y &= -17 \end{aligned}$$

$$20) \begin{aligned} -2x - y &= -9 \\ 5x - 2y &= 18 \end{aligned}$$

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(2, 1)

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 $y = x - 1$

(4, 3)

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

(1, 2)

4) $-3x - 3y = 3$
 $y = -5x - 17$

(-4, 3)

5) $y = -2$
 $4x - 3y = 18$

(3, -2)

6) $y = 5x - 7$
 $-3x - 2y = -12$

(2, 3)

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 $-5x - y = 21$

(-3, -6)

8) $-7x - 2y = -13$
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(3, -4)

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 $-3x + 6y = -12$

(0, -2)

10) $-5x + y = -3$
 $3x - 8y = 24$

(0, -3)

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No solution

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(-3, -2)

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$$19) \begin{aligned} -5x - 8y &= 17 \\ 2x - 7y &= -17 \end{aligned}$$

(-5, 1)

$$20) \begin{aligned} -2x - y &= -9 \\ 5x - 2y &= 18 \end{aligned}$$

(4, 1)