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Substitution

Solve by Substitution One method of solving systems of equations is substitution.

Use substitution to solve the system of equations. y = 2x4x - y = -4

Substitute 2x for y in the second equation.

| 4.00 | -y | - | -4 | Second equation |
|------|-----|---|----|-----------------------|
| 4x - | 2x | - | -4 | y = 2x |
| | 2x | - | -4 | Combine like terms. |
| | .30 | - | -2 | Divide each side by 2 |
| | | | | and simplify. |

Use y = 2x to find the value of y. y = 2x First equation y = 2(-2) x = -2y = -4 Sampley.

The solution is (-2, -4).

Example 2 Solve for one variable, then substitute. x + 3y = 7

$$\begin{aligned}
x + 3y &= 7 \\
2x - 4y &= -6
\end{aligned}$$

Solve the first equation for x since the coefficient of x is 1.

$$x+3y=7$$
 First equation $x+3y-3y=7-3y$ Subtract 3y from each side. $x=7-3y$ Simplify.

Find the value of y by substituting 7 - 3y for x in the second equation.

$$2x - 4y = -6$$
 Second equation $2(7 - 3y) - 4y = -6$ $x = 7 - 3y$ $14 - 6y - 4y = -6$ Distributive Property $14 - 10y = -6$ Combine like terms. $14 - 10y - 14 = -6 - 14$ Subtract 14 from each side. $-10y = -20$ Simplify. $y = 2$ Divide each side by -10 and simplify.

Use y = 2 to find the value of x.

$$x = 7 - 3y$$

$$x = 7 - 3(2)$$

$$x = 1$$

The solution is (1, 2).

Exercises

Use substitution to solve each system of equations.

$$1. y = 4x$$
$$3x - y = 1$$

$$4. x - 2y = -1 \\ 3y = x + 4$$

7.
$$2b = 6a - 14$$

 $3a - b = 7$

$$10. x = 2y \\
0.25x + 0.5y = 10$$

$$2. x = 2y \\
y = x - 2$$

$$5. x - 4y = 1$$
$$2x - 8y = 2$$

$$8. x + y = 16 2y = -2x + 2$$

$$11. x - 2y = -5$$

 $x + 2y = -1$

$$3. x = 2y - 3$$
$$x = 2y + 4$$

$$6. x + 2y = 0$$
$$3x + 4y = 4$$

9.
$$y = -x + 3$$

 $2y + 2x = 4$

$$12. -0.2x + y = 0.5$$
$$0.4x + y = 1.1$$

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