

6-2 Study Guide and Intervention**Substitution****Solve by Substitution** One method of solving systems of equations is **substitution**.**Example 1** Use substitution to solve the system of equations.

$$y = 2x$$

$$4x - y = -4$$

Substitute $2x$ for y in the second equation.

$$4x - y = -4$$

$$4x - 2x = -4$$

$$2x = -4$$

$$x = -2$$

Second equation

$$y = 2x$$

Combine like terms.

Divide each side by 2 and simplify.

Use $y = 2x$ to find the value of y .

$$y = 2x$$

$$y = 2(-2)$$

$$y = -4$$

The solution is $(-2, -4)$.

First equation

$$x = -2$$

Simplify.

Example 2 Solve for one variable, then substitute.

$$x + 3y = 7$$

$$2x - 4y = -6$$

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

$$x + 3y = 7$$

$$x + 3y - 3y = 7 - 3y$$

$$x = 7 - 3y$$

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

$$2x - 4y = -6$$

$$2(7 - 3y) - 4y = -6$$

$$14 - 6y - 4y = -6$$

$$14 - 10y = -6$$

$$14 - 10y - 14 = -6 - 14$$

$$-10y = -20$$

$$y = 2$$

First equation

Subtract $3y$ from each side.

Simplify.

Second equation

$$x = 7 - 3y$$

Distributive Property

Combine like terms.

Subtract 14 from each side.

Simplify.

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. $y = 4x$

$3x - y = 1$

2. $x = 2y$

$y = x - 2$

3. $x = 2y - 3$

$x = 2y + 4$

4. $x - 2y = -1$

$3y = x + 4$

5. $x - 4y = 1$

$2x - 8y = 2$

6. $x + 2y = 0$

$3x + 4y = 4$

7. $2b = 6a - 14$

$3a - b = 7$

8. $x + y = 16$

$2y = -2x + 2$

9. $y = -x + 3$

$2y + 2x = 4$

10. $x = 2y$

$0.25x + 0.5y = 10$

11. $x - 2y = -5$

$x + 2y = -1$

12. $-0.2x + y = 0.5$

$0.4x + y = 1.1$

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