

# Algebraic Equations and Answers (Speedy Study Guides)

**Speedy Study Guides**

## ALGEBRAIC EQUATIONS AND ANSWERS

This section illustrates the process of solving equations of various forms. It also shows you how to check your answer three different ways: algebraically, graphically, and using the concept of equivalence. The following table is a partial list of typical equations.

**LINEAR EQUATIONS - Solve for  $x$  in the following equations.**

$x - 4 = 10$

Recall the following:

- A linear equation is a polynomial of degree 1.
- In order to solve for the unknown variable, you must isolate the variable.
- In the order of operations, multiplication and division are completed before addition and subtraction.

Example 1: Solve for  $x$  in the following equation.

$x - 4 = 10$

Add 4 to both sides of the equation:

$x = 14$

The answer is  $x = 14$

Check the solution by substituting 14 in the original equation for  $x$ . If the left side of the equation equals the right side of the equation after the substitution, you have found the correct answer.

$2x - 4 = 10$

Add 4 to both sides of the equation:

$2x = 14$

Divide both sides by 2:

$x = 7$

The answer is  $x = 7$ .

Check the solution by substituting 7 in the original equation for  $x$ . If the left side of the equation equals the right side of the equation after the substitution, you have found the correct answer.

$2(7) - 4 = 14 - 4 = 10$

$2x - 6 = 14 - 6 = 8$

Subtract 2x from both sides of the equation:

$2x - 6 = 8$

Add 6 to both sides of the equation:

$2x = 14$

Divide both sides by 2:

$x = 7$

The answer is  $x = 7$ .

Check the solution by substituting -5 in the original equation for  $x$ . If the left side of the equation equals the right side of the equation after the substitution, you have found the correct answer.

$2x - 4 = 10$

Add 4 to both sides of the equation:

$2x = 14$

Multiply both sides by the lowest common multiple of 4, 6, and 3, or 12:

$\frac{3}{4}x - \frac{5}{6} = 5x - \frac{125}{3}$

$12\left(\frac{3}{4}x - \frac{5}{6}\right) = 12\left(5x - \frac{125}{3}\right)$

Simplify:

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### Reviews

*This is actually the greatest publication i have go through right up until now. I really could comprehended every little thing using this composed e book. I realized this book from my i and dad advised this ebook to learn.*

*(Jimmie Schmidt I)*

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