

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.

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

$$5x - 6 = 2x + 8$$

Subtract $2x$ from both sides of the equation:

$$3x - 6 = 8$$

Add 6 to both sides of the equation:

$$3x = 14$$

Divide both sides by 3:

$$x = \frac{14}{3}$$

The answer is $x = \frac{14}{3}$.

Check the solution by substituting $\frac{14}{3}$ 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.

$$\text{Left side: } 5\left(\frac{14}{3}\right) - 6 = \frac{70}{3} - 6 = \frac{50}{3}$$

$$\text{Right side: } 3\left(\frac{14}{3}\right) + 8 = 14 + 8 = 22$$

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

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

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

Simplify:



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