

Lesson 2: The Basic Rules of Algebra

Note: This lesson corresponds to Section 0.2 in the course textbook.

Algebraic Expressions

An algebraic expression is a collection of letters (called variables) and numbers (called constants) that are combined using the operations of addition, subtraction, multiplication, and division.

A variable is a symbol that represents an element of a set (its value can vary).

- The terms of an algebraic expression are those parts that are separated by addition.
- A term that contains variables is called a variable term.
- A term that consists of a number alone is called a constant term.
- The numerical factor of a variable term is the coefficient of the variable term.

Example 1

Consider the algebraic expression $5x^4 + 3x^2 - 2x + 7$.

(a) List the terms.

$5x^4, 3x^2, -2x, 7$

(b) What is the coefficient of the 3^{rd} term?

-2

(c) What is the variable part of the 1^{st} term?

x^4

(d) What is the constant term?

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Example 2

Evaluate the algebraic expression $3x^2 - 5$ when $x = -1$. (Remember to use order of operations.)

$$3(-1)^2 - 5$$

$$3(1) - 5 \rightarrow 3 - 5 = \boxed{-2}$$

Example 3

What is the difference between the expression -4^2 and $(-4)^2$?

$$\begin{aligned} & \rightarrow (-4)(-4) = 16 \\ & \swarrow \\ & -1 \cdot 4^2 = \boxed{-16} \end{aligned}$$

Example 4

Evaluate the algebraic expression $-x^2 + 2x$ when $x = -2$.

$$\begin{aligned} & -(-2)^2 + 2(-2) \\ & -4 - 4 = \boxed{-8} \end{aligned}$$

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Ronald J. Harshbarger, Lisa S. Yocco



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