

Algebra Fundamentals

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What Is Algebra?

Algebra is the branch of mathematics that uses symbols (especially letters) to generalize certain arithmetical operations and relationships; expressions, equations, inequalities, **integers**, **patterns**, and sequences are only some of the parts of algebra.

Arithmetic, which can be thought of as the ABCs of math, deals with computation and calculation; that is, non-negative real numbers and the application of basic mathematical operations—addition, subtraction, multiplication, division.

REAL NUMBER SYSTEM

Set of Rational Numbers

Rational Numbers (The ratio of two integers; includes):

Fractions: $\frac{1}{2}, \frac{3}{4}, -\frac{7}{8}, -3\frac{1}{3}, -\frac{12}{17}$

Decimals:

Terminating decimals: 3.5, 0.6, -7.3

Repeating decimals: 0.5, $1.\overline{3}$, -2.78

Integers (All whole numbers and their opposites): -3, -2, -1, 0, 1, 2, 3, ...

Whole Numbers (All the counting numbers plus 0): 0, 1, 2, 3, 4, ...

Natural Numbers (All the counting numbers): 1, 2, 3, 4, 5, ...



Real numbers = set of rational numbers + set of irrational numbers.

Set of Irrational Numbers: Non-terminating and non-repeating decimals, such as π ; irrational numbers cannot be written as the ratio of two integers.

$\pi = 3.141592654...$

$\sqrt{3} = 1.7320508...$

56.7845375... (Repeating dots indicate number doesn't terminate)

All non-perfect-square numbers have irrational square roots:

$\sqrt{5} = 2.23606...$

BASIC ALGEBRA TERMS

Simplify: Combine any like terms; complete any operations within the problem. EX: $3x + 2y + 6x$
 $9x + 2y$

Evaluate: Solve; to evaluate $3x + 2y$ EX: $3x + 2y$
when $x = 4$ and $y = 8$, $3(4) + 2(8)$
substitute values for x and y ; $12 + 16$
then solve. 28

Simplest Form: All solutions must be in lowest terms. EX: $\frac{2}{6} = \frac{1}{3}$



8 less than a number; $x - 8$
a less than b; $b - a$ 8 less x; $8 - x$

BASIC ALGEBRA TERMS (continued)

Coefficient: The number being multiplied times the variable.

EX: $12x + 3$, the coefficient is 12;
 $x + 3$, the coefficient (of x) is 1

Term: In an algebraic expression, a number or variable, or a product or quotient of numbers and variables. EX: $5x^2 + 4x^2b - 3x$ (three terms)

Like Terms: Terms with the exact same variables and exponents (coefficients can be different) or constants; like terms can be combined.

EX: $5x$ and $3x$; x^2 and $-3x^2$; 4 and -8

Unlike Terms: Terms with different variables and exponents; EX: $5x$, $3y$

Inverse Operation: An operation that undoes another operation; subtraction undoes addition. EX: $+3$ inverse is -3 ; division undoes multiplication.

EX: divide by 3 is the inverse of multiply by 3; the inverse of x would be $-x$

Complex Fractions:

Numerator, denominator, or both are fractions.

EX: $\frac{2}{\frac{1}{3}}$ means $\frac{2}{\frac{1}{3}} + 3$

$4\frac{1}{\frac{1}{2}}$ means $4\frac{1}{\frac{1}{2}} + \frac{1}{2}$

Expressions: Mathematical phrases that use variables and/or numbers, and operation symbols; expressions do NOT have equal signs; to solve an expression, use substitution and show all steps, each right below the other; simplify.

EX: Evaluate $3x + 2b$

Evaluate $-5x + 3y - 6z$

when $a = 2$, and $b = 6$

when $x = -2$, $y = 3$, $z = -9$

$3(2) + 2(6)$

$-5(-2) + 3(3) - 6(-9)$

$6 + 12$

$10 + 9 + 54$

18

73

Equations: Mathematical sentences using equal signs to show both sides of the equation have the same value; to maintain the same value, whatever operation is done on one side must also be done on the other side; to solve, make sure the variable stays on one side of the equal sign and all other numbers are moved to the other side by using inverse operations; simplify and solve.

One-Step Equations:

Solve using one inverse operation to isolate the variable.

$x + 5 = 10$
 $-5 \quad -5$
 $x = 5$
 $9 = y - 4$
 $+4 \quad +4$
 $13 = y$
 $\frac{4x}{4} = \frac{12}{4}$
 $x = 3$

Two-Step Equations: Solve using two inverse operations to isolate the variable; begin with value farthest from variable (on same side).

$2x + 10 = 12$ $16 = 5y + 21$
 $-10 \quad -10$ $-21 \quad -21$
 $\frac{2x}{2} = \frac{2}{2}$ $\frac{-5}{5} = \frac{5y}{5}$
 $x = 1$ $-1 = y$

Equations with Distributive Property: Distribute the value outside the parentheses to all values inside the parentheses; solve using normal steps.

$4(3x + 3) = 20$ $-3(x - 4) = 15$
 $20x + 12 = 20$ $-3x + 12 = 15$
 $-12 \quad -12$ $-12 \quad -12$
 $20x = 8$ $-3x = 3$
 $\frac{20x}{20} = \frac{8}{20}$ $\frac{-3x}{-3} = \frac{3}{-3}$
 $x = \frac{8}{20}$ $x = -1$
 $x = \frac{2}{5}$

ALWAYS distribute a negative!

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B Lingard



Solutions And Study Guide For Fundamentals Of College Algebra:

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