

# Algebra

Algebra is a branch of Mathematics that involves both solving equations and studying the structure of the equations themselves, independent from their concrete outcomes.

## ALGEBRA AS "THE LANGUAGE OF MATHEMATICS"

Algebra represents mathematics from an abstract and generic point of view, using symbols instead of specific numbers and formulaic rules to determine how the symbols are used.

### WHAT IS ALGEBRA USED FOR?

Many branches of science use the algebraic language, from Physics and Engineering to the processing of images or sociology.



Algebra is used in a number of everyday ways.

E.g. applying an equation that represents a parabola can calculate where a missile will fall.

## EXPRESSING ALGEBRA

Algebra is a concatenation of letters and numbers joined together by procedures such as addition, subtraction, multiplication, division, potentiation or radicals.

**INDICATOR**  
Positioned above and to the right of a variable or given quantity.

**TERM**  
The algebraic expression in which quantities aren't separated by symbols + or -.

**GRADE OF A TERM**  
The sum of the letters' indicators. e.g. the second term is considered **first grade**.

**COEFFICIENT**  
The number positioned to the left of a variable. No symbol is used to express the product.

**VARIABLE**  
Unknown quantity that is expressed using a letter.

**CONSTANT TERM**  
Those that do not contain letters.

## EQUATIONS

Equations provide equality between algebraic expressions by working out the numerical value of the letters, which are called unknown quantities. There can be one or several of these.

E.g.  $y = 2x^2 + x + 1$

unknown quantities

### TYPES OF EQUATIONS

#### FIRST AND SECOND GRADE

Start with the largest term that is present.

E.g.  $3x - 6 = 9$  ← first grade

$x^2 - 6x + 1 = 0$  ← second grade

#### THIRD GRADE

The higher graded term is 3 or cubic.

E.g.  $x^3 + 3x^2 + 10 = 0$

#### RATIONAL

The unknown quantity appears in algebraic fractions.

E.g.  $\frac{3}{x-1} + \frac{3}{x+1} = 3$

#### EXPONENTIAL

The unknown quantity appears in the index.

E.g.  $x^{3x-3} = 8$

### GRAPHICAL REPRESENTATION

Used to interpret graphically an equation of two unknown quantities in a system of Cartesian coordinates, with x axis is horizontal and the y axis is vertical.



## EVOLUTION OF ALGEBRA

Algebra began with the Egyptians and Babylonians, who were able to solve linear equations and quadratics and also unsolved equations containing unknown quantities.



Abu Kamil stated and demonstrated the identity and fundamental laws of algebra.

All-Jewarid compiled knowledge provided by the Greeks and Indians and wrote an algebraic treatise whose title derived from the word algebra.



Leonardo Fibonacci found an approximation close to a solution for the cubic equation.

Scipione del Ferro, Tartaglia and Gerolamo Cardano solved the general cubic equation based on the constants that appear in the equation. François Viète introduced the modern algebraic notation.

Carl Friedrich Gauss published the proof that all polynomial equations have at least one root in the complex plane.

Abel y Galois promote a series of very abstract general concepts, which deserve to be recognized as the first example of the group concept (theory of sets) and the starting point of modern algebra.



W.R. Hamilton developed complex numbers arithmetic for quads. George Boole, established the foundations of logical algebra.

Computing systems are applied to this material, leading to the creation of computerized algebra.

3000 B.C.

Century IX

Century XIII

Century XVI

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**D Keegan**

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