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.

$$y = ax^2 + x + c$$

Y axis — Impact zone

X axis

Horizontal distance covered

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.

$$2a^2 + 3b - 4$$

$$3b^1$$

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. $y = 2x2 + x + 1$

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

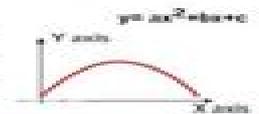**RATIONAL** The unknown quantity appears in algebraic fractions. E.g. $\frac{3}{x-1} + \frac{3}{x+1} = 3$

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.

$$y = ax^2 + bx + c$$

Y axis — X axis

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.

Al-Jwarizmi compiled knowledge provided by the Greeks and Indians and write an algebraic treatise whose title derived from the word algebra. Abu Kamil stated and demonstrated the identity and fundamental laws of 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 introduces the modern algebraic notation.

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

Abel y Galois promote a series of very abstract general concepts, which deserve to be recognised 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 computerised algebra.

3000 B.C.	Century IX	Century XIII	Century XVI	Century XVIII	Century XIX	Century XIX	Century XX

[Algebra F Collstud Funcapprcustom](#)

Thomas Griffiths

Algebra F Collstud Funcapprcustom:

The book delves into Algebra F Collstud Funcapprcustom. Algebra F Collstud Funcapprcustom is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Algebra F Collstud Funcapprcustom, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

   - Chapter 1: Introduction to Algebra F Collstud Funcapprcustom
   - Chapter 2: Essential Elements of Algebra F Collstud Funcapprcustom
   - Chapter 3: Algebra F Collstud Funcapprcustom in Everyday Life
   - Chapter 4: Algebra F Collstud Funcapprcustom in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Algebra F Collstud Funcapprcustom. This chapter will explore what Algebra F Collstud Funcapprcustom is, why Algebra F Collstud Funcapprcustom is vital, and how to effectively learn about Algebra F Collstud Funcapprcustom.
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4. In chapter 3, the author will examine the practical applications of Algebra F Collstud Funcapprcustom in daily life. This chapter will showcase real-world examples of how Algebra F Collstud Funcapprcustom can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Algebra F Collstud Funcapprcustom in specific contexts. This chapter will explore how Algebra F Collstud Funcapprcustom is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Algebra F Collstud Funcapprcustom. The final chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Algebra F Collstud Funcapprcustom.

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