

Algebra 1 Cheat Sheet

Polynomial

An expression of the form:

$$a_n x^n + a_{n-1} x^{n-1} + \dots + a^2 x^2 + a_1 x + a_0$$

Where $a_i \in \mathbb{R}$; $i = 0, 1, 2, \dots, n$; $n \in \mathbb{N}$.

Types Of Polynomials

Linear (degree 1) $ax + b$

Quadratic (degree 2) $ax^2 + bx + c$

Cubic (degree 3) $ax^3 + bx^2 + cx + d$

Factoring

Difference Of Two Squares $a^2 - b^2 = (a + b)(a - b)$

Difference Of Two Cubes $a^3 - b^3 = (a - b)(a^2 + ab + b^2)$

Sum Of Two Cubes $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$

Polynomial Long Division

$$(x^3 + x^2 - 2x) \div (x - 1)$$

Solution:

$$\begin{array}{r} x^2 + 2x \\ x-1 \overline{) x^3 + x^2 - 2x} \\ \underline{-x^3 + x^2} \\ 2x^2 - 2x \\ \underline{-2x^2 + 2x} \\ 0 \end{array}$$

Algebraic Fractions

$$a\left(\frac{b}{c}\right) = \frac{ab}{c}$$

$$\frac{a}{\left(\frac{1}{b}\right)} = \frac{ac}{b}$$

$$\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$$

$$\frac{ab + ac}{a} = b + c, a \neq 0$$

$$\frac{\left(\frac{1}{c}\right)}{a} = \frac{a}{bc}$$

$$\frac{\left(\frac{1}{b}\right)}{\left(\frac{1}{c}\right)} = \frac{ac}{bc}$$

$$\frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$$

Binomial Coefficient

The binomial coefficient represents the number of ways you can choose r objects from a group of n objects.

$$\binom{n}{r} = \frac{n!}{r!(n-r)!} \quad \binom{n}{r} = \binom{n}{n-r}$$

$$\binom{n}{r} = \frac{n(n-1)(n-2)\dots(n-(k-1))}{k(k-1)(k-2)\dots 1}$$

Binomial Theorem

For any positive integer n ,

$$\begin{aligned} (a+b)^n &= \sum_{m=0}^n \binom{n}{m} a^{n-m} b^m \\ &= \binom{n}{0} a^n + \binom{n}{1} a^{n-1} b^1 + \dots + \binom{n}{n} b^n \end{aligned}$$

Algebraic Identities

In an identity, all coefficients of like powers are equal.

An identity must be true for all values of the independent variables.

Example: $3x + 7 = ax + b$ implies $a = 3$ and $b = 7$.

Manipulating Formulae

What you do to one side of an equation, you must do to the other.

In terms of x Write with x as the independent variable

The subject of Make it on it's own on one side of the equation

As a function of same as 'in terms of'

Solving Linear Equations

Linear equations can be solved by making x with subject of the equation.

Example: Solve $4x + 2 = 14$

$$4x + 2 = 14$$

$$\Rightarrow 4x = 14 - 2 = 12$$

$$\Rightarrow x = \frac{12}{4} = 3$$

Systems of Equations With Three Variables

1. Reduce the three equations to two by eliminating one of the unknowns.
2. Choose an unknown to isolate.
3. Eliminate this unknown from all three equations, taking them two at a time.
4. Solve these two equations.
5. Use the solutions as values in the original equations
6. Check your solution!

Plato Answer For Algebra B

Yan Bai



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- 1 Who is called the Euclid of Algebra?
- 2 What is the value of Golden ratio which is made popular recently by the book *The Da Vinci Code*?
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Educational Testing Act of 1981 United States. Congress. House. Committee on Education and Labor. Subcommittee on Elementary, Secondary, and Vocational Education, 1982 From Calculus to Computers Amy Shell-Gellasch, Dick Jardine, 2005 Classroom resource material allowing the integration of mathematics history into undergraduate mathematics teaching **Plato's Phædo, a tr., by A.E. Blagrove and C.S. Fearenside. With test papers** Plato, 1897 A Commentary on Plato's Meno Jacob Klein, 2017-12-15 The Meno one of the most widely read of the Platonic dialogues is seen afresh in this original interpretation that explores the dialogue as a theatrical presentation Just as Socrates's listeners would have questioned and examined their own thinking in response to the presentation so Klein shows should modern readers become involved in the drama of the dialogue Klein offers a line by line commentary on the text of the Meno itself that animates the characters and conversation and carefully probes each significant turn of the argument Originally published in 1965 A UNC Press Enduring Edition UNC Press Enduring Editions use the latest in digital technology to make available again books from our distinguished backlist that were previously out of print These editions are published unaltered from the original and are presented in affordable paperback formats bringing readers both historical and cultural value **A Quizzer for Students of Education** Lewis Edgecomb Walton, 1966 Plato's Republic Lewis Campbell, 1902 *The Reference Catalogue of Current Literature*, 1906 I Want to Be a Mathematician: An Automathography Paul R. Halmos, 2020-08-03 *The Theaetetus of Plato* Plato, Lewis Campbell, 1883 **Mathematical Thought From Ancient to Modern Times, Volume 1** Morris Kline, 1990-03-01 The major creations and developments in mathematics from the beginnings in Babylonia and Egypt through the first few decades of the twentieth century are presented with clarity and precision in this comprehensive historical study *Introduction to Lie Algebras* J. I. Hall, 2025-01-21 Being both a beautiful theory and a valuable tool Lie algebras form a very important area of mathematics This modern introduction targets entry level graduate students It might also be of interest to those wanting to refresh their knowledge of the area and be introduced to newer material Infinite dimensional algebras are treated extensively along with the finite dimensional ones After some motivation the text gives a detailed and concise treatment of the Killing Cartan classification of finite dimensional semisimple algebras over algebraically closed fields of characteristic 0 Important constructions such as Chevalley bases follow The second half of the book serves as a broad introduction to algebras of arbitrary dimension including Kac Moody KM loop and affine KM algebras Finite dimensional semisimple algebras are viewed as KM algebras of finite dimension their representation and character theory developed in terms of integrable representations The text also covers triangular decomposition after Moody and Pianzola and the BGG category \mathcal{O} A lengthy chapter discusses the Virasoro algebra and its representations Several applications to physics are touched on via differential equations Lie groups superalgebras and vertex operator algebras Each chapter concludes with a problem section and a section on context and history There is an extensive bibliography and appendices present some algebraic results used in the book **Reference Catalogue of Current**

Literature ,1928 The Theaetetus of Plato Lewis Campbell,2022-06-04 Reprint of the original first published in 1861

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