

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!

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Table of Contents Algebra Semester B Platoweb Answers

1. Understanding the eBook Algebra Semester B Platoweb Answers
 - The Rise of Digital Reading Algebra Semester B Platoweb Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Semester B Platoweb Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebra Semester B Platoweb Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Semester B Platoweb Answers
 - Personalized Recommendations
 - Algebra Semester B Platoweb Answers User Reviews and Ratings
 - Algebra Semester B Platoweb Answers and Bestseller Lists

5. Accessing Algebra Semester B Platoweb Answers Free and Paid eBooks
 - Algebra Semester B Platoweb Answers Public Domain eBooks
 - Algebra Semester B Platoweb Answers eBook Subscription Services
 - Algebra Semester B Platoweb Answers Budget-Friendly Options
6. Navigating Algebra Semester B Platoweb Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra Semester B Platoweb Answers Compatibility with Devices
 - Algebra Semester B Platoweb Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra Semester B Platoweb Answers
 - Highlighting and Note-Taking Algebra Semester B Platoweb Answers
 - Interactive Elements Algebra Semester B Platoweb Answers
8. Staying Engaged with Algebra Semester B Platoweb Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Semester B Platoweb Answers
9. Balancing eBooks and Physical Books Algebra Semester B Platoweb Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Semester B Platoweb Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra Semester B Platoweb Answers
 - Setting Reading Goals Algebra Semester B Platoweb Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra Semester B Platoweb Answers
 - Fact-Checking eBook Content of Algebra Semester B Platoweb Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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