

ARITHMETIC PROPERTIES

ASSOCIATIVE $a(bc) = (ab)c$
 COMMUTATIVE $a + b = b + a$ and $ab = ba$
 DISTRIBUTIVE $a(b + c) = ab + ac$

ARITHMETIC OPERATIONS EXAMPLES

$$\begin{aligned} ab + ac &= a(b + c) \\ a\left(\frac{b}{c}\right) &= \frac{ab}{c} \\ \left(\frac{a}{b}\right) &= \frac{a}{bc} \\ \frac{a}{\left(\frac{b}{c}\right)} &= \frac{ac}{b} \\ \frac{a}{b} + \frac{c}{d} &= \frac{ad + bc}{bd} \\ \frac{a}{b} - \frac{c}{d} &= \frac{ad - bc}{bd} \\ \frac{a - b}{c - d} &= \frac{b - a}{d - c} \\ \frac{a + b}{c} &= \frac{a}{c} + \frac{b}{c} \\ \frac{ab + ac}{a} &= b + c, a \neq 0 \\ \left(\frac{a}{b}\right) &= \frac{ad}{bc} \end{aligned}$$

QUADRATIC EQUATION

For the equation $ax^2 + bx + c = 0$ $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

RADICAL PROPERTIES

$a, b \geq 0$ for even n
 $\sqrt[n]{a} = a^{\frac{1}{n}}$
 $\sqrt[n]{\sqrt[n]{a}} = \sqrt[n]{a}$
 $\sqrt[n]{ab} = \sqrt[n]{a} \sqrt[n]{b}$
 $\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}}$
 $\sqrt[n]{a^n} = a$, if n is odd
 $\sqrt[n]{a^n} = |a|$, if n is even

LOGARITHM PROPERTIES

if $y = \log_b x$ then $b^y = x$
 $\log_b b = 1$ and $\log_b 1 = 0$
 $\log_b b^x = x$
 $b^{\log_b x} = x$
 $\log_a x = \frac{\log_b x}{\log_b a}$
 $\log_b(x^r) = r \log_b x$
 $\log_b(xy) = \log_b x + \log_b y$
 $\log_b\left(\frac{x}{y}\right) = \log_b x - \log_b y$

EXPONENT PROPERTIES

$$\begin{aligned} a^n a^m &= a^{n+m} \\ (a^n)^m &= a^{nm} \\ (ab)^n &= a^n b^n \\ a^{-n} &= \frac{1}{a^n} \\ \left(\frac{a}{b}\right)^{-n} &= \left(\frac{b}{a}\right)^n = \frac{b^n}{a^n} \\ \frac{a^n}{a^m} &= a^{n-m} = \frac{1}{a^{m-n}} \\ a^0 &= 1, a \neq 0 \\ \left(\frac{a}{b}\right)^n &= \frac{a^n}{b^n} \\ \frac{1}{a^{-n}} &= a^n \\ a^{\frac{n}{m}} &= \left(a^{\frac{1}{m}}\right)^n = (a^n)^{\frac{1}{m}} \end{aligned}$$

PROPERTIES OF INEQUALITIES

If $a < b$ then $a + c < b + c$ and $a - c < b - c$
 If $a < b$ and $c > 0$ then $ac < bc$ and $a/c < b/c$
 If $a < b$ and $c < 0$ then $ac > bc$ and $a/c > b/c$

PROPERTIES OF COMPLEX NUMBERS

$$\begin{aligned} i &= \sqrt{-1} \\ i^2 &= -1 \\ \sqrt{-a} &= i\sqrt{a}, \quad a \geq 0 \\ (a + bi) + (c + di) &= a + c + (b + d)i \\ (a + bi) - (c + di) &= a - c + (b - d)i \\ (a + bi)(c + di) &= ac - bd + (ad + bc)i \\ (a + bi)(a - bi) &= a^2 + b^2 \\ |a + bi| &= \sqrt{a^2 + b^2} \\ \overline{(a + bi)} &= a - bi \\ \overline{(a + bi)}(a + bi) &= |a + bi|^2 \\ \frac{1}{(a + bi)} &= \frac{(a - bi)}{(a + bi)(a - bi)} = \frac{a - bi}{a^2 + b^2} \end{aligned}$$

COMMON FACTORING EXAMPLES

$$\begin{aligned} x^2 - a^2 &= (x + a)(x - a) \\ x^2 + 2ax + a^2 &= (x + a)^2 \\ x^2 - 2ax + a^2 &= (x - a)^2 \\ x^2 + (a + b)x + ab &= (x + a)(x + b) \\ x^3 + 3ax^2 + 3a^2x + a^3 &= (x + a)^3 \\ x^3 + a^3 &= (x + a)(x^2 - ax + a^2) \\ x^3 - a^3 &= (x - a)(x^2 + ax + a^2) \\ x^{2n} - a^{2n} &= (x^n - a^n)(x^n + a^n) \end{aligned}$$

ABSOLUTE VALUE

$$\begin{aligned} |a| &= \begin{cases} a, & \text{if } a \geq 0 \\ -a, & \text{if } a < 0 \end{cases} \\ |a| &= |-a| \\ |a| &\geq 0 \\ |ab| &= |a||b| \\ \left|\frac{a}{b}\right| &= \frac{|a|}{|b|} \\ |a + b| &\leq |a| + |b| \end{aligned}$$

COMPLETING THE SQUARE

$$ax^2 + bx + c = a(\dots)^2 + \text{constant}$$

1. Divide by the coefficient a .
2. Move the constant to the other side.
3. Take half of the coefficient b/a , square it and add it to both sides.
4. Factor the left side of the equation.
5. Use the square root property.
6. Solve for x .



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Table of Contents Algebra Properties Cheat Sheet

1. Understanding the eBook Algebra Properties Cheat Sheet
 - The Rise of Digital Reading Algebra Properties Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Properties Cheat Sheet
 - 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 Properties Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Properties Cheat Sheet
 - Personalized Recommendations
 - Algebra Properties Cheat Sheet User Reviews and Ratings

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