



Math

Radicals Reference Sheet

Radicals

What are Radicals?

Definition:

Radicals are the inverse of exponents - the opposite operation.

$$\text{if } a^n = b \\ \text{then } \sqrt[n]{b} = a$$

The "nth root" of a quantity is the number you would need to raise to the power of n , in order to get the quantity specified in the radical.

Notation of the Square Root:

When your operation is a square root, (which has an index of 2), you can leave out the index number and it will mean the same thing.

$$\sqrt{a}$$

Parts of the Radical:

$$\begin{array}{c} \text{Index} \rightarrow \sqrt[n]{b} \\ \text{Radical Symbol} \end{array}$$

The Radical as an Inverted Exponent:

$$\sqrt[n]{a} = a^{1/n}$$

A radical of a number can also be written as the number, raised to the power of one divided by the index.

Inherent Properties of Radicals:

The square root of a number, squared, is that number:

$$\sqrt{a} \times \sqrt{a} = a$$

$$(\sqrt{a})^2 = a$$

The radical of a number, taken to the power of its index, is that number:

$$\text{When } n \text{ is even: } (\sqrt[n]{a})^n = |a|$$

$$\text{When } n \text{ is odd: } (\sqrt[n]{a})^n = a$$

Radicals of Numbers with Exponents:

When n is even, and a is a positive number:

$$\sqrt[n]{a^m} = a^{m/n} = (\sqrt[n]{a})^m$$

Exponents can be taken outside of the radical, to equal the same result.

Operations With Radicals:

Product Rule:

$$\sqrt[n]{a} \times \sqrt[n]{b} = \sqrt[n]{a \times b}$$

When two numbers are multiplied together inside a radical, then the radicals of each can be multiplied together for the same result.

Quotient Rule:

$$\text{When } b \neq 0: \sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}}$$

When two numbers are divided inside a radical, then the radicals of each can be divided instead, for the same result.

Rationalizing The Denominator:

$$\frac{a}{\sqrt{b}} = \frac{a}{\sqrt{b}} \times \frac{\sqrt{b}}{\sqrt{b}} = \frac{a\sqrt{b}}{b}$$

When the denominator of an expression is a radical number, it can be made easier to solve by converting the denominator to a rational number, using this method.

Perfect Squares:

- A perfect square is a number whose square root is a whole number.
- Perfect squares are rational numbers.

$$\sqrt{1} = 1 \quad \sqrt{4} = 2 \quad \sqrt{9} = 3 \quad \sqrt{16} = 4$$

Rational and Whole Number Definitions:

Whole Numbers are the counting numbers, with no decimal or fraction part.

Example: 0, 1, 2, 3, 4, ...

Rational Numbers are numbers that can be written as a fraction of two integers. Integers are whole numbers and their negatives.

Example: $\frac{1}{2}$, $\frac{3}{4}$, 1 , -1 , ...

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Table of Contents Algebra Radical Cheat Sheet

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

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