



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:

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:

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

When n 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:

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.

Examples: 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.

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

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