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radical

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Defines radical expression

The $\sqrt{}$ is called a *radical*. The of the radical symbol is the first letter "r" of the Latin *radix*, which "http://planetmath.org/NthRootroot".

There is other terminology that is related to radicals: In the expression $\sqrt[3]{x}$, x is the radicand and 3 is the index.

The index of a radical is usually an integer at least as large as two; however, if the index is two, it is usually not written. Moreover, if a radical does not have a written index, it is understood to be two, in which case the radical denotes a square root.

A radical expression is an expression that involves a radical.

One can use fractional powers instead of the radical symbol via $\sqrt[n]{x} = x^{\frac{1}{n}}$. This practice of avoiding the radical symbol may be due to typesetting issues.