

## Chapter 7 Radical Functions and Rational Functions

***Vocabulary Words***

Nth root	radical equation
Radicand	square root equation
Index	complex fraction
principal root	rational function
rationalize the denominator	point of discontinuity
like radicals	inverse relation
rational exponent	inverse functions

***California Content Standards***

15.0 Students determine whether a specific algebraic statement involving radical expressions is sometimes true, always true or never true.

12.0 Students know the laws of fractional exponents.

24.0 Students solve problems involving functional concepts such as composition and defining the inverse function.

25.0 Students use properties from number systems to justify steps in combining and simplifying functions.

7.0 Students add, subtract, reduce and evaluate rational expressions with monomial and polynomial denominators and simplify complicated rational expressions, including those with negative exponents in the denominator.

MA 8.0 Students are familiar with the notion of the limit of a function as the independent variable approaches a number or infinity.