

Algebra II

<http://store.mathusee.com/catalog/math-u-see/secondary-math/algebra-2>

Students who are ready for *Algebra II* have successfully completed *Algebra I*. It is highly recommended that *Geometry* be completed as well.

Concepts and Skills learned in the Geometry curriculum:

- Exponents
- Rational Expressions
- Scientific Notation
- Combining Like Terms
- Radicals: Basic Operations and Simplifying
- Factoring Polynomials
- Fractional Exponents
- Solving Equations with Rational Expressions
- Imaginary and Complex Numbers
- Conjugate Numbers
- Cubes and Pascal's Triangle
- Binomial Theorem
- Completing the Square
- Quadratic Formula
- Discriminants
- Applications Using Percent
- Isolating a Variable
- Ratios
- Unit Multipliers and Metric Conversions
- Distance = Rate x Time
- Motion Problems
- Graphing Lines
- Graphing Parallel and Perpendicular Lines
- Graphing Inequalities
- Distance Formula and Midpoint Formula
- Conic Sections: Circle and Ellipse
- Conic Sections: Parabola
- Parabola: Maxima and Minima
- Conic Sections: Hyperbola
- Solving Systems of Equations: Lines and Conic Sections
- Coin Problems
- Consecutive Integers
- Chemical Mixtures
- Age and Boat in the Current Problems
- Solving Equations with Three Variables
- Vectors