Algebra 2 Challenge Exam Topics
Jesuit High School

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- Basic Algebra Concepts
- Introduction to Parent Functions
- Transforming Linear Functions
- Using Transformations to Graph Quadratic Functions
- Properties of Quadratic Functions in Standard Form
- Solving Quadratic Equations by Graphing and Factoring
- Completing the Square
- Complex Numbers and Roots
- The Quadratic Formula
- Solving Quadratic Inequalities
- Operations with Complex Numbers
- Factoring Polynomials
- Finding Real Roots of Polynomial Equations
- Fundamental Theorem of Algebra
- Inverses of Relations and Functions
- Logarithmic Functions
- Properties of Logarithms
- Exponential and Logarithmic Equations and Inequalities
- Rational Functions
- Solving Rational Equations and Inequalities
- Radical Expressions and Rational Exponents
- Radical Functions
- Piecewise Function
- The Unit Circle
- Graphs of Sine and Cosine
- Ellipses
- Hyperbolas
- Identifying Conic Sections