

Algebra 2 Lessons

- Unit 1- Equations & Inequalities
 - 1.1- Expressions & Operations
 - 1.2- Solving Equations
 - 1.3- Absolute Value Equations
 - 1.4- Solving Inequalities
 - 1.5- Absolute Value Inequalities
- Unit 2- Systems of Linear Equations
 - 2.1- Solving Systems by Graphing & Substitution
 - 2.2- Solving Systems by Elimination & Solving Applications
- Unit 3- Solving Quadratics
 - 3.1- Multiplying Polynomials
 - 3.2- Factoring Review
 - 3.3- Solving Quadratics by Graphing
 - 3.4- Solving Quadratics by Factoring
- Unit 4- Complex Numbers & Solving Quadratics
 - 4.1- Simplifying Radicals & Solving by Square Roots
 - 4.2- Imaginary Numbers & Power of i
 - 4.3- Complex Numbers
 - 4.4- Solving Quadratics by Completing the Square
 - 4.5- The Quadratic Formula
 - 4.6- The Discriminant
- Unit 5- Polynomial Functions
 - 5.1- Monomial & Polynomial Review
 - 5.2- Graphing Polynomial Functions
 - 5.3- Roots/ Zeros of a Polynomial Function
 - 5.4- Factoring Polynomials
 - 5.5- Solving Polynomials by Factoring
 - 5.6- Dividing Polynomials
 - 5.7- Function Operations & Composition Functions
- Unit 6- Radical Functions
 - 6.1- nth Roots & Simplifying
 - 6.2- Adding, Subtracting, and Multiplying Radicals
 - 6.3- Rational Exponents
 - 6.4- Solving Radical Equations
- Unit 7- Exponential and Logarithmic Functions
 - 7.1- Solving Exponential Functions
 - 7.2- Intro to Logarithms
 - 7.3- Properties of Logs
 - 7.4- Solving Log Equations
 - 7.5- Solving Exponential Equations with Logs
 - 7.6- Base e , Natural Logs
- Unit 8- Rational Functions
 - 8.1- Simplifying, Multiplying, and Dividing Rational Functions
 - 8.2- Adding and Subtracting Rational Functions
- Unit 9- Probability & Statistics
 - 9.1- Fundamental Counting Principle, Permutations, & Combinations
 - 9.2- Theoretical Probability
 - 9.3- Measures of Central Tendency
 - 9.4- Data Distribution
 - 9.5- Z-scores