

Algebra 2 CP

Grade Level: 9, 10, 11, 12

Credit: 0.5 or 1.0

Prerequisite: Algebra I and Geometry

Algebra 2 CP includes the study of absolute value inequalities, factoring of polynomials, radicals, lines, linear inequalities, complex numbers, solving quadratic equations and inequalities, functions, inverse functions and compositions, variation, exponential and logarithmic functions, systems of linear equations, matrix operations, inversion, determinants, and conic section basics. Study includes both math theory and real-life application of concepts. Appropriate technology, including calculators and application software, is used regularly for instruction and assessment.

Algebra 2 CP Lessons

Teacher Message

Lesson 1: Pre-Test

Lesson 2: Absolute-Value Inequalities

Lesson 3: Factoring Polynomials

Lesson 4: Polynomials

Lesson 5: Radicals and Roots

Lesson 6: Solving Radical Equations

Lesson 7: Review

Lesson 8: Lines

Lesson 9: Linear Inequalities

Lesson 10: Complex Numbers

Lesson 11: Quadratic Equations with Complex Solutions

Lesson 12: More with Quadratic Equations

Lesson 13: Application Problems with Quadratic Equations

Lesson 14: Solving Quadratic Inequalities

Lesson 15: Review

Lesson 16: Functions



Lesson 17: Composition of Functions

Lesson 18: Inverse Functions

Lesson 19: Direct, Inverse, and Joint Variation

Lesson 20: Review

Lesson 21: Exponential Functions vs. Quadratic Functions

Lesson 22: Graphing Exponential Functions

Lesson 23: Exponential and Logarithm Functions

Lesson 24: Law of Logarithms

Lesson 25: Graphing Logarithmic Functions

Lesson 26: Solving Exponential Problems

Lesson 27: Solving Logarithmic Equations

Lesson 28: Review of Exponential and Log Functions

Lesson 29: Systems of Linear and Quadratic Equations (Graphing)

Lesson 30: Systems of Linear and Quadratic Equations II

Lesson 31: Introduction to Matrices

Lesson 32: Matrix Multiplication

Lesson 33: Review of Systems of Linear Equations and Matrices

Lesson 34: Determinants: Cramer's Rule

Lesson 35: Introduction to Conic Sections

Lesson 36: Review of Determinants and Conic Sections

Lesson 37: SAT / ACT Review

