

Algebra 2

Number & Operations	Algebra
<p>1.01 Simplify and perform operations with rational exponents and logarithms (common and natural) to solve problems.</p> <p>1.02 Define and compute with complex numbers.</p> <p>1.03 Operate with algebraic expressions (polynomial, rational, complex fractions) to solve problems.</p> <p>1.04 Operate with matrices to model and solve problems.</p> <p>1.05 Model and solve problems using direct, inverse, combined and joint variation.</p>	<p>2.01 Use the composition and inverse of functions to model and solve problems; justify results.</p> <p>2.02 Use quadratic functions and inequalities to model and solve problems; justify results.</p> <p>a) Solve using tables, graphs, and algebraic properties.</p> <p>b) Interpret the constants and coefficients in the context of the problem.</p> <p>2.03 Use exponential functions to model and solve problems; justify results.</p> <p>a) Solve using tables, graphs, and algebraic properties.</p> <p>b) Interpret the constants, coefficients, and bases in the context of the problem.</p> <p>2.04 Create and use best-fit mathematical models of linear, exponential, and quadratic functions to solve problems involving sets of data.</p> <p>a) Interpret the constants, coefficients, and bases in the context of the data.</p> <p>b) Check the model for goodness-of-fit and use the model, where appropriate, to draw conclusions or make predictions.</p> <p>2.05 Use rational equations to model and solve problems; justify results.</p> <p>a) Solve using tables, graphs, and algebraic properties.</p> <p>b) Interpret the constants and coefficients in the context of the problem.</p> <p>c) Identify the asymptotes and intercepts graphically and algebraically.</p> <p>2.06 Use cubic equations to model and solve problems.</p> <p>a) Solve using tables and graphs.</p> <p>b) Interpret constants and coefficients in the context of the problem.</p> <p>2.07 Use equations with radical expressions to model and solve problems; justify results.</p> <p>a) Solve using tables, graphs, and algebraic properties.</p> <p>b) Interpret the degree, constants, and coefficients in the context of the problem.</p> <p>2.08 Use equations and inequalities with absolute value to model and solve problems; justify results.</p> <p>a) Solve using tables, graphs, and algebraic properties.</p> <p>b) Interpret the constants and coefficients in the context of the problem.</p> <p>2.09 Use the equations of parabolas and circles to model and solve problems; justify results.</p> <p>a) Solve using tables, graphs, and algebraic properties.</p> <p>b) Interpret the constants and coefficients in the context of the problem.</p> <p>2.10 Use systems of two or more equations or inequalities to model and solve problems; justify results. Solve using tables, graphs, matrix operations, and algebraic properties.</p>