Algebra 2 Standards Based Skills

Linear Functions

Identifies families of functions

Writes and describes transformations of functions

Writes equation for line of best fit

Solves systems of equations with 3 variables

Quadratic Functions

Describes, writes transformations of, graphs, and writes equations for quadratic functions

Performs all 4 operations with complex numbers

Solves quadratics with complex solutions

Solves systems of nonlinear equations

Solves inequalities with 2 variables

Functions

Graphs, adds, subtracts ,multiplies, divides, factors, solves, transforms and writes polynomial functions

Evaluates expressions with rational exponents

Solves and graphs radical equations and inequalities

Defines, evaluates, graphs, transforms, solves, and writes logarithmic functions and equations

Classifies, writes, and graphs direct and indirect variation

Performs all 4 operations with rational expressions

Solves rational equations

Sequences and Series

Uses sequence notation

Writes, evaluates, translates, and finds sums for sequences and series

Trigonometric Ratios and Functions

Solves for triangles using the unit circle

Writes and graph trigonometric functions

Uses trigonometric identities

Simplifies and solves trigonometric expressions and equations

Probability, data, and statistics

Finds probabilities of independent and dependent events

Calculates combinations and permutations

Uses the Binomial Theorem to expand binomials

Analyzes and recognizes bias in collecting data

Approximates margins of error

Analyzes a Normal distribution