

NOTRE DAME CATHOLIC SCHOOL

Ms. Bledsoe

Algebra II

Textbook: Algebra II

Publisher: Glencoe McGraw-Hill

- Goals:
- 1) develop students' higher-order thinking
 - 2) prepare students for future mathematics classes
 - 3) require students to analyze information presented and utilize it with their prior knowledge to address thought-provoking real-life situations.

Specific Objectives:

- Students will:
- 1) solve equations and inequalities
 - 2) analyze relations and functions
 - 3) find the slope of a line
 - 4) graph special functions, linear and absolute value inequalities
 - 5) solve systems of linear equations in two or three variables
 - 6) solve systems of inequalities
 - 7) perform operations with matrices and determinants
 - 8) use matrices to solve systems of equations
 - 9) add, subtract, multiply, divide, and factor polynomials
 - 10) simplify and solve equations
 - 11) graph quadratic functions
 - 12) solve quadratic equations and functions
 - 13) graph and solve quadratic inequalities
 - 14) evaluate polynomial functions and solve polynomial equations
 - 15) graph polynomial and square root functions
 - 16) use the Midpoint and Distance Formulas
 - 17) write and graph equations of parabolas, circles, ellipses, and hyperbolas
 - 18) solve systems of quadratic equations and inequalities
 - 19) simplify rational expressions
 - 20) graph rational functions
 - 21) solve rational equations and inequalities
 - 22) solve logarithmic equations and inequalities
 - 23) use arithmetic and geometric sequences and series
 - 24) find values of trigonometric functions