

Advanced Algebra 9 Topic Outline

1st Quarter

Systems of Equations and Inequalities

- \rightarrow Systems of Linear Equations in Two Variables
- → Systems of Linear Equations in Several Variables
- → Matrices and Systems of Linear Equations

2nd Quarter

Systems of Equations and Inequalities

- → The Algebra of Matrices
- → Inverses of Matrices and Matrix Equations
- → Determinants and Cramer's Rule
- → Systems of Nonlinear Equations
- → Systems of Inequalities

3rd Quarter

Exponential and Logarithmic Functions

- → Exponential Functions
- → The Natural Exponential Function
- → Logarithmic Functions
- \rightarrow Laws of Logarithms
- → Exponential and Logarithmic Equations

4th Quarter

Sequences and Series

- → Sequences and Summation Notation
- → Arithmetic Sequences
- → Geometric Sequences
- → Mathematics of Finance