

Intro to College Algebra

Text: College Algebra, 5th Edition, Larson and Hostetler, Houghton Mifflin Company

Chapter P: Prerequisites

- Real Numbers
- Exponents and Radicals
- Polynomials and Special Products
- Factoring
- Rational Expressions

Chapter 1: Equations and Inequalities

- Quadratic Equations
- Complex Numbers
- Other Types of Equations
- Linear Inequalities

Chapter 2: Functions and Their Graphs

- Linear Equations in Two Variables
- Functions
- Analyzing Graphs of Functions
- Combinations of Functions

Chapter 3: Polynomial Functions

- Polynomial and Synthetic Division

Chapter 5: Exponential and Logarithmic Functions

- Logarithmic Functions and Their Graphs
- Properties of Logarithms
- Exponential and Logarithmic Equations

Chapter 6: Systems of Equations and Inequalities

- Solving Systems of Equations
- Two-Variable Linear Systems
- Multivariable Linear Systems
- Systems of Inequalities
- Linear Programming

Chapter 7: Matrices and Determinants

- Matrices and Systems of Equations
- Operations with Matrices
- The Inverse of a Square Matrix
- The Determinant of a Square Matrix

- Applications of Matrices and Determinants

Chapter 8: Sequences, Series, and Probability

- Sequences and Series
- Arithmetic Sequences and Partial Sums
- Geometric Sequences and Series