List of Course Topics


Chapter 1: Fundamental Concepts of Algebra
1.1 Real Numbers
1.2 Exponents and Radicals
1.3 Algebraic Expressions
1.4 Fractional Expressions

Chapter 2: Equations and Inequalities
2.1 Equations
2.2 Applied Problems
2.3 Quadratic Equations
2.4 Complex Numbers
2.5 Other Types of Equations
2.6 Inequalities
2.7 More on Inequalities

Chapter 3: Functions and Graphs
3.1 Rectangular Coordinate Systems
3.2 Graphs of Equations
3.3 Lines
3.4 Definition of Function
3.5 Graphs of Functions
3.6 Quadratic Functions
3.7 Operations on Functions

Chapter 4: Polynomial and Rational Functions
4.1 Polynomial Functions of Degree Greater Than 2
4.2 Properties of Division

Chapter 5: Exponential and Logarithmic Functions
5.1 Inverse Functions
5.2 Exponential Functions
5.3 The Natural Exponential Function
5.4 Logarithmic Functions
5.5 Properties of Logarithms
5.6 Exponential and Logarithmic Equations