# Math 116 - College Algebra Lecture Notes

Go to: Chapter 1 | Chapter 2 | Chapter 3 | Chapter 4 | Chapter 5 | Chapter 6 | Chapter 7 | Chapter 8

# Prerequisites

# Chapter 1 - Functions and Their Graphs

- Graphs and Graphing Utilities
- Lines in the Plane
- Functions
- Graphs of Functions
- Shifting, Reflecting, and Stretching Graphs
- Combinations of Functions
- Inverse Functions

# Chapter 2 - Intercepts, Zeros, and Solutions

- 1. Linear Equations and Modeling
- 2. Solving Equations Graphically
- 3. Complex Numbers
- 4. Solving Equations Algebraically
- 5. Solving Inequalities Algebraically and Graphically
- 6. Exploring Data: Linear Models and Scatter Plots (now covered in 2.1 in text)

# Chapter 3 - Polynomials and Rational Functions

- Quadratic Functions
- Polynomial Functions of Higher Degree
- Real Zeros of Polynomial Functions
- The Fundamental Theorem of Algebra
- Rational Functions and Asymptotes
- Graphs of Rational Functions

# Chapter 4 - Exponential and Logarithmic Functions

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

# **College Algebra Lecture 1**

**M Lipman** 



Whispering the Strategies of Language: An Mental Journey through College Algebra Lecture 1

In a digitally-driven earth where screens reign great and immediate connection drowns out the subtleties of language, the profound techniques and psychological nuances concealed within phrases frequently go unheard. However, situated within the pages of **College Algebra Lecture 1** a interesting fictional value pulsing with fresh feelings, lies an exceptional quest waiting to be undertaken. Composed by a skilled wordsmith, this enchanting opus invites visitors on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within ab muscles material of every word. Within the psychological depths of this touching evaluation, we shall embark upon a heartfelt exploration of the book is key styles, dissect its fascinating publishing fashion, and fail to the powerful resonance it evokes serious within the recesses of readers hearts.

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