

MAC1105 – College Algebra

Lecture & Exam Schedule

Prepared by Professor Toribio J Matamoros

Textbook – *Algebra & Trigonometry, 10th Edition*, by Sullivan

COURSE TOPICS

CHAPTER 1 – EQUATIONS AND INEQUALITIES

- Section 1.1 – Linear Equations
- Section 1.2 – Quadratic Equations
- Section 1.3 – Complex Numbers; Quadratic Equations in the Complex Number System
- Section 1.4 – Radical Equations; Equations Quadratic in Form; Factorable Equations
- Section 1.5 – Solving Inequalities
- Section 1.6 – Equations and Inequalities Involving Absolute Value

CHAPTER 2 – GRAPHS

- Section 2.1 – The Distance and Midpoint Formulas
- Section 2.2 – Graphs of Equations in Two Variables; Intercepts; Symmetry
- Section 2.3 – Lines
- Section 2.4 – Circles

CHAPTER 3 – FUNCTIONS

- Section 3.1 – Functions
- Section 3.2 – The Graph of a Function
- Section 3.3 – Properties of Functions
- Section 3.4 – Library of Functions; Piecewise-defined Functions
- Section 3.5 – Graphing Techniques: Transformations

CHAPTER 4 – LINEAR AND QUADRATIC FUNCTIONS

- Section 4.3 – Quadratic Functions and Their Properties

CHAPTER 5 – POLYNOMIAL AND RATIONAL FUNCTIONS

- Section 5.2 – Properties of Rational Functions
- Section 5.3 – The Graph of a Rational Function

CHAPTER 6 – EXPONENTIAL AND LOGARITHMIC FUNCTIONS

- Section 6.1 – Composite Functions
- Section 6.2 – One-to-One Functions; Inverse Functions
- Section 6.3 – Exponential Functions
- Section 6.4 – Logarithmic Functions
- Section 6.5 – Properties of Logarithms
- Section 6.6 – Logarithmic and Exponential Equations
- Section 6.7 – Financial Models

LECTURE & EXAM SCHEDULE

Tuesday	Thursday
08/29 Course Introduction	08/31 Section 1.1 & Section 1.2
09/05 Section 1.3	09/07 Section 1.4 (Part 1)
09/12 Section 1.4 (Part 2)	09/14 Section 1.5 & Section 1.6
09/19 Chapter 1 Review	09/21 EXAM 1
09/26 Section 2.1	09/28 Section 2.2
10/03 Section 2.3	10/05 Section 2.4
10/10 Chapter 2 Review	10/12 EXAM 2

Tuesday	Thursday
10/17 Section 3.1 & Section 3.2	10/19 Section 3.3 & Section 3.4
10/24 Section 3.5	10/26 Section 4.3
10/31 Section 5.2	11/02 Section 5.3
11/07 Chapters 3 – 5 Review	11/09 EXAM 3
11/14 Section 6.1	11/16 Section 6.2
11/21 Section 6.3 & Section 6.4	11/23 NO CLASS
11/28 Section 6.5	11/30 Section 6.6
12/05 Section 6.7	12/07 Chapter 6 Review
12/12 EXAM 4	12/14 EXAM MAKE-UP DAY