

Topics Covered in Math 98

Chapter R - Reference

- R.1 Study Tips
- R.2 Fractions
- R.3 Introduction to Geometry

Chapter 1 – The Set of Real Numbers

- 1.1 Sets of Numbers and the Real Number Line
- 1.2 Order of Operations
- 1.3 Addition of Real Numbers
- 1.4 Subtraction of Real Numbers
- 1.5 Multiplication and Division of Real Numbers
- 1.6 Properties of Real Numbers and Simplifying Expressions

Chapter 2 – Linear Equations and Inequalities

- 2.1 Addition, Subtraction, Multiplication, and Division Properties of Equality
- 2.2 Solving Linear Equations
- 2.3 Linear Equations: Clearing Fractions and Decimals
- 2.4 Applications of Linear Equations: Introduction to Problem Solving
- 2.5 Applications Involving Percents
- 2.6 Formulas and Applications of Geometry
- 2.7 Linear Inequalities

Chapter 3 – Graphing Linear Equations in Two Variables

- 3.1 Rectangular Coordinate System
- 3.2 Linear Equations in Two Variables
- 3.3 Slope of a Line
- 3.4 – 3.6 *To be covered in Math 99*

Chapter 4 – Systems of Linear Equations in Two Variables

- 4.1 Solving Systems of Equations by the Graphing Method
- 4.2 Solving Systems of Equations by the Substitution Method
- 4.3-4.4 *To be covered in Math 99*

Chapter 5 – Polynomials and Properties of Exponents

- 5.1 Exponents: Multiplying and Dividing Common Bases
- 5.2 More Properties of Exponents
- 5.3 Definitions of b^0 and b^{-n}
- 5.4 Scientific Notation
- 5.5 Addition and Subtraction of Polynomials
- 5.6 Multiplication of Polynomials
- 5.7 Division of Polynomials

Chapter 6 – Factoring Polynomials

- 6.1 Greatest Common Factor and Factoring by Grouping
- 6.2 Factoring Trinomials of the Form $x^2 + bx + c$ - (Optional) – *will not be covered*
- 6.3 Factoring Trinomials: Trial-and-Error Method
- 6.4 Factoring Trinomials: AC-Method
- 6.5 Factoring Binomials
- 6.6 General Factoring Summary
- 6.7 Solving Equations Using the Zero Product Rule

Chapter 7 – Rational Expressions

7.1 Introduction to Rational Expressions

7.2 Multiplication and Division of Rational Expressions

7.3-7.7 *To be covered in Math 99*