



Mathematics II	
Department: Mathematics	Key of the matter: 681/685
Requirements: Have passed mathematics II of Middle School Mathematics	Year: Second
Weekly load: 5	Date of elaboration April 2017

Topics

Unit 1

- 1.1. Rational Numbers
- 1.2. Set of Real Numbers
- 1.3. Ordering Real Numbers
- 1.4. Integer Exponents
- 1.5. Scientific Notation
- 1.6. Representing Proportional Relationships

Unit 2

- 2.1. Modeling with Expressions
- 2.2. Interpret Algebraic Expressions
- 2.3. Comparing Algebraic Expressions
- 2.4. Distributive Property
- 2.5. Creating and Solving Equations
- 2.6. Creating and Solving Equations on Both Sides
- 2.7. Solving For a Variable
- 2.8. Creating and Solving Inequalities
- 2.9. Creating and Solving Compound Inequalities

Unit 3

- 3.1. Graphing Relationships
- 3.2. Sketching Maps for Situations
- 3.3. Recognize Functions
- 3.4. Vertical Line Test





- 3.5. Modeling with Function
- 3.6. Graphing Functions
- 3.7. Identify and Graphing Sequences
- 3.8. Constructing Arithmetic Sequences

Unit 4

- 4.1. Understanding Linear Functions
- 4.2. Using Intercepts
- 4.3. Interpreting Rate of Change and Slope
- 4.4. Slope Intercept Form
- 4.5. Point Slope Form
- 4.6. Standard Form
- 4.7. Comparing Properties of a Linear Function

Unit 5

- 5.1. Linear Inequalities in Two Variables
- 5.2. Solving Linear Systems by Graphing
- 5.3. Solving Linear Systems by Substitution
- 5.4. Solving Linear Systems by Elimination
- 5.5. Solving Linear Systems by Multiplying First
- 5.6. Understand Rational Exponents and Radicals
- 5.7. Simplifying Expressions with Rational Exponents and Radicals
- 5.8. Understand Polynomial Expressions



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