

## ALGEBRA 1 MIDTERM STUDY GUIDE

### Chapter 1- Foundations for Algebra

- Evaluating Expressions
- Translating expressions ex. "3 times the sum of x and 25."  $\rightarrow 3(x+25)$
- Simplifying square roots and determining which whole numbers a non-perfect square will fall between
  - Example:  $\sqrt{11}$  falls between  $3^2 = 9$  and  $4^2 = 16$
- Distributive Property
- Real Number system – classify and compare on a number line
  - Natural numbers, whole numbers, integers, rational numbers, irrational numbers, real numbers
- Algebraic Properties - Commutative, Associative, Distributive, Inverse, Identity, Reflective, Transitive, Closure, Zero product

### Chapter 2 – Solving Equations

- Solving one-variable equations
  - $5(x - 10) = 2(x + 3)$
  - Distribute, combine like terms, balance the equation, solve for the given variable
- Solving proportions
  - $\frac{x+2}{4} = \frac{x-5}{2}$
- Percents
  - $\frac{\text{Part}}{\text{Whole}} = \frac{x}{100}$  or  $\frac{\text{is}}{\text{of}} = \frac{x}{100}$
  - Use the previous equation when solving questions like: 45 is 15% of what number?
  - Percent Change – increase and decrease
- Applying equations to model real-world scenarios
  - Example: Perimeter problems, Money problems

### Chapter 3 – Solving Inequalities

- Solving Inequalities and graphing the solution on a number line
- Solving Compound Inequalities and graphing the solution on a number line
- Working with Sets – Roster form, Set-Builder Notation
- Union and Intersection of Sets
- Solving Absolute Value Equations and Inequalities (know the rules!)

### Chapter 4 - Functions

- Analyzing a Graph – tell a story

# Integrated Algebra 1 Midterm Study Guide

**Yi-Tong Ma**



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