

## 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

# Algebra 1 Midterm Review Study Guide Teacher Web

**Keri Rhinehart**



## **Algebra 1 Midterm Review Study Guide Teacher Web:**

Junior College Journal Walter Crosby Eells,1970 Includes Junior college directory formerly Directory of the junior college 1931 1945 **Resources in Education** ,1993-07 **Big Book of Home Learning** Mary Pride,1991-07 Learn at home with exciting products for all school subjects New **HMH Algebra 1 New York** ,2016-10-04 **Algebra 1** Keri Rhinehart,2021-01-11 THE BEST ALGEBRA 1 GUIDE WORKBOOK Written by an actual teacher tutor with years of experience in the classroom A thorough yet easy to understand book on Algebra 1 A brief but complete description on each topic followed by step by step examples and practice problems Quizzes and Tests are included as well This is the perfect tool for homeschooling as it includes standards and approximate time lengths for each unit Units 1 Real Numbers Introduction to Algebra2 Solving Linear Equations Inequalities3 Graphing Linear Equations Inequalities4 Systems of Equations5 Exponents Radicals6 Factoring Rational Expressions 7 Complex Numbers Quadratics8 Sequences Exponential Growth Decay Data AnalysisIncludes Formula Reference Page Calculator Guides and Solutions to all practice quizzes and tests Step by step solutions are available for download from website 5minmath com Free videos are available on the website as well

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