

Aim Academy Online

Pre-Algebra REVIEW Syllabus

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Required Materials:

- Graphing Calculator - TI-83 or TI-84 (any version will work)
- Scanner or smart phone
- Computer (not tablet) with Web cam, sound card, and microphone

Course Description

This course will serve as a way to brush up on and develop better algebraic skills learned in pre-algebra. It is designed to help students boost confidence and enhance their current understanding of essential concepts heading into the Algebra 1 level.

Evaluation & Grading

Grading

- Final grade will be calculated by point totals for each assignment.
- PASS = greater than 69% of total course points.

Please note that students who end the course with a PASS will be awarded a certificate of completion.

Assignments

Videos: Daily videos are required for viewing and note-taking. Each video also includes questions to be answered by the student with answers submitted on the Canvas platform.

Homework: Daily work includes exercises in the Delta Math app and/or in Canvas. These assignments may be attempted as many times as needed to achieve a desired score.

Challenges: Each module will include one challenge assignment. These are completed through Canvas, however, handwritten work is still expected. At the end of each, there is a place to upload that work.

Participation

Be responsible: Your benefit from this class will depend on your diligence to complete the assignments in a timely manner.

Course Objectives

Numbers

- Employ the order of operations
- Calculate using powers of numbers
- Estimate square roots
- Plot points on coordinate graphs
- Convert among decimals, fractions, and percents
- Use and calculate proportions

Geometry

- Calculate area of 2-dimensional figures
- Calculate surface area of 3-dimensional figures
- Volume of 3-dimensional figures
- Calculate circumference and area of circles

Operations

- Basic operations on positive and negative integers
- Evaluate absolute values
- Recognize, represent, and use properties

Equations & Inequalities

- Evaluate equations and inequalities
- Graph linear equations and inequalities
- Solve linear equations and inequalities

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Course Schedule

Module 1

Integers

Module 2

Rational Numbers

Module 3

Ratios, Proportions, Percents

Module 4

Exponents & Square Roots

Module 5

Equations & Inequalities

Module 6

Graphing

Module 7

Geometric Figures

"The only way to learn mathematics is to do mathematics."

-Paul Halmos