

Eigen Tutoring

www.EigenTutoring.com

 Canton, MA (Per Appointments only)

 Support@EigenTutoring.com


 Ahmad (781) 244-7223

Algebra 1- Part I

Schedule

(online) Every Tuesday & Thursday, 6:00 PM to 7:00 PM starting September 9th, 2025 to December 18th, 2025.

(Note: excluding holidays.)

 Class Capacity 8-12 Students.

Class Description

(Pre-requisite: Elementary Mathematics - Pre-Algebra Mathematics)

This class extends elementary mathematics principles with added emphasis on communicating mathematical ideas clearly & comprehension of word problems. It prepares students to work comfortably with variables and algebraic expressions. It introduces students to the set theory and Venn Diagrams, then extends them to the set of numbers and the binary operations to provide students with a deep understanding of algebra. Students will be comfortable working with inequalities, relations, equations, and functions. Students will develop the ability to solve real-world problems.

Class Objectives

- Students are expected to become comfortable in elementary mathematics and capable of expressing logical mathematical statements using mathematical notation.
- Achieve a higher understanding of binary operations and the real number line representation of arithmetics.
- Become familiar with word mathematical problems that represent a real-world example of applied mathematics.
- Strengthen the capability to re-write word problems into mathematical expressions and vice versa.
- Emphasize the understanding of inequalities and the methods of their solution.
- Build a strong methodology to work with algebraic expressions and simplify them.

Teaching Methodology

Every week, students will receive a handout that includes notes and practice problems. The instructor replicates the same notes in a very professional and persuasive presentation on the whiteboard. Students can hand write the notes again off the white board. Otherwise, the same notes are included on the handout. After completing the note-taking part of the class, the instructor demonstrates with selected problems. Students leave every week with a set of problems considered optional Homework.

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Syllabus

Textbook: *Pearson Algebra 1 Common Core Edition*

Fall

WEEK	TOPIC(s)	Date
1	Review	Sep 8 th
2	Set Theory & Sets of Numbers	Sep 15 th
3	Working with Venn Diagrams	Sep 22 nd
4	Statistics (1)	Sep 29 th
5	Statistics (2)	Oct 6 th
6	Working with Exponents	Oct 13 th
7	Equations versus Inequalities	Oct 20 th
8	Linear Inequality	Oct 27 th
9	Absolute Value Inequality	Nov 3 rd
10	Rational Inequality	Nov 10 th
11	Equations: Relations versus Functions	Nov 17 th
12	Linear Function (1)	Nov 24 th
13	Linear Function (2)	Dec 1 st
14	Quadratic Function (1)	Dec 8 th
15	Quadratic Function (2)	Dec 15 th

Spring

WEEK	TOPIC(s)	Date
17	Polynomials and Factoring (1)	Jan 12 th
18	Polynomials and Factoring (2)	Jan 19 th
19	Systems of Linear Equations: Substitution (1)	Jan 26 th
20	Systems of Linear Equations: Substitution (2)	Feb 2 nd
21	Systems of Linear Equations: elimination (1)	Feb 9 th
22	Systems of Linear Equations: elimination (2)	Feb 16 th
23	Systems of Linear In-Equalities (1)	Feb 23 rd
24	Systems of Linear In-Equalities (2)	Mar 2 nd
25	Solving Equations	Mar 9 th
26	Working with Exponents	Mar 16 th
27	Working with Rational Expressions	Mar 23 rd
28	Working with Radical Expressions	Apr 6 th
30	Geometry Review (1) - Triangles	Apr 13 th
31	Geometry Review (2) - Circles	Apr 20 th
32	Introduction o Trigonometry	Apr 27 th
33	Unit Conversion (1)	May 4 th
34	Unit Conversion (2)	May 11 th
35	Comprehensive Review (1)	May 18 th
36	Comprehensive Review (2)	May 25 th

Attendance:

Students are expected to attend every scheduled lesson. Make ups are not offered.