

Course Outline

ADV ALGEBRA I

Unit 1: Solving Eq. and Ineq.

- Solving Equations*
- Solving Inequalities*
- Absolute Value Eq/Ineq
- ★ Checkpoint #1

Unit 4: Piecewise Functions

- Absolute Value Function
- Piecewise Functions*
- Transforming Piecewise Functions
- Step Functions
- ★ Checkpoint #3

Unit 3: Linear Functions

- Relations and Functions*
- Linear Functions*
- Transforming Linear Functions
- ★ Unit 3 Test

Unit 6: Exponential Functions

- Rational Exp. and Properties of Exp.*
- Exponential Functions*
- Transformations of Exp. Functions*
- Exponential Growth and Decay*
- ★ Unit 6 Test

Unit 2: Linear Equations

- Slope-Intercept Form*
- Point-Slope Form
- Standard Form
- ★ Checkpoint #2

Unit 7: Sequences

- Arithmetic Sequences
- Geometric Sequences
- ★ Checkpoint #4
(End of Quarter 1)

Unit 5: Systems of Eq/Ineq


- Solve Systems of Eq by Graphing*
- Solve Systems of Eq by Substitution*
- Solve Systems of Eq by Elimination*
- Linear Ineq in Two Variables*
- Solve Systems of Linear Ineq*
- ★ Unit 5 Test

Unit 8: Polynomials

- Add/Subtract Polynomials*
- Multiplying Polynomials*
- Multiplying Special Cases*
- Operations with Functions
- Composition of Functions
- ★ Unit 8A Test

Course Outline

ADV ALG 1



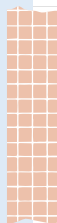
Unit 8 (Cont.): Polynomials

- Factoring Polynomials*
- Factoring Trinomials*
- Factoring Trinomials with Coefficient*
- Factoring Special Cases*
- ★ Checkpoint #5

Unit 10: Quadratic Functions

- Key Features of a Quadratic Function*
- Quadratic Function in Vertex Form*
- Quadratic Function in Standard Form*
- ★ Unit 10 Test

Unit 9: Solve Quadratic Equations

- Rewriting Radical Expressions*
 - Solve Quadratic Eq using Sq Roots*
 - Completing the Square*
 - The Quadratic Formula*
 - Imaginary Numbers*
 - ★ Checkpoint #6
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Unit 11: Stats and Probability

- Categorical and Quantitative Variables
- Two-Way Frequency Tables
- Aggregating Categorical Data
- Probability of Events
- Conditional Probability
- ★ Unit 11 Test