



COLLEGE ALGEBRA VIDEO LIBRARY OUTLINE

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VIDEO LIBRARY OVERVIEW

Chapter 1 – Prerequisites

- 1.1 Real Numbers: Algebra Essentials
- 1.2 Exponents and Scientific Notation
- 1.3 Radicals and Rational Exponents
- 1.4 Polynomials
- 1.5 Factoring Polynomials
- 1.6 Rational Expressions

Chapter 2 – Equations and Inequalities

- 2.1 The Rectangular Coordinate System and Graphs
- 2.2 Linear Equations in One Variables
- 2.3 Models and Applications
- 2.4 Complex Numbers
- 2.5 Quadratic Equations
- 2.6 Other Types of Equations
- 2.7 Linear Inequalities and Absolute Value Inequalities

Chapter 3 – Functions

- 3.1 Functions and Function Notation
- 3.2 Domain and Range
- 3.3 Rates of Change and Behavior of Graphs
- 3.4 Composition of Functions
- 3.5 Transformation of Functions
- 3.6 Absolute Value Functions
- 3.7 Inverse Functions

Chapter 4 – Linear Functions

- 4.1 Linear Functions
- 4.2 Modeling with Linear Functions
- 4.3 Fitting Linear Models to Data

Chapter 5 – Polynomial and Rational Functions

- 5.1 Quadratic Functions
- 5.2 Power Functions and Polynomial Functions
- 5.3 Graphs of Polynomial Functions
- 5.4 Dividing Polynomials
- 5.5 Zeros of Polynomial Functions
- 5.6 Rational Functions
- 5.7 Inverses and Radical Functions
- 5.8 Modeling Using Variation







Chapter 6 – Exponential and Logarithmic Functions

- 6.1 Exponential Functions
- 6.2 Graphs of Exponential Functions
- 6.3 Logarithmic Functions
- 6.4 Graphs of Logarithmic Functions
- 6.5 Logarithmic Properties
- 6.6 Exponential and Logarithmic Equations
- 6.7 Exponential and Logarithmic Models

Chapter 7 – Systems of Equations and Inequalities

- 7.1 Systems of Linear Equations: Two Variables
- 7.2 Systems of Linear Equations: Three Variables
- 7.3 System of Nonlinear Equations and Inequalities: Two Variables
- 7.4 Partial Fractions
- 7.5 Matrices and Matrix Operations
- 7.6 Solving Systems with Gaussian Elimination
- 7.7 Solving Systems with Inverses
- 7.8 Solving Systems with Cramer's Rule

Chapter 8 – Analytic Geometry

- 8.1 The Ellipse
- 8.2 The Hyperbola
- 8.3 The Parabola

Chapter 9 - Sequences, Probability, and Counting Theory

- 9.1 Sequences and Their Notations
- 9.2 Arithmetic Sequences
- 9.3 Geometric Sequences
- 9.4 Series and Their Notations
- 9.5 Counting Principles
- 9.6 The Binomial Theorem
- 9.7 Probability





CHAPTER 1 - PREREQUISITES

1.1 Real Numbers: Algebra Essentials

Topics:

- A. Classify a real number as a natural, whole, integer, rational, or irrational number (1)
- B. Perform calculations using order of operations (5 27 odd)
- C. Use the properties of real numbers: commutative, associative, distributive, inverse, and identity (3)
- D. Evaluate algebraic expressions (29 37 odd)
- E. Simplify algebraic expressions (39 59 odd)

Suggested Homework Exercises: 1 – 59 odd

1.2 Exponents and Scientific Notation

Topics:

A. Simplify expressions using properties of exponents (1 – 19 odd, 25 – 43 odd) B. Use scientific notation (21, 23, 45 – 49 odd)

Suggested Homework Exercises: 1 – 49 odd

1.3 Radicals and Rational Exponents

Topics:

- A. Evaluate square roots (7 65 odd)
- B. Use the product rule to simplify square roots (7 65 odd)
- C. Use the quotient rule to simplify square roots (13, 17, 25, 27, 43, 59, 61)
- D. Add and subtract square roots (15, 19, 31)
- E. Rationalize denominators (29 33 odd, 47, 49, 53)
- F. Use rational roots (7 65 odd)

Suggested Homework Exercises: 1 – 65 odd

1.4 Polynomials

Topics:

- A. Identify the degree and leading coefficient of polynomials (1, 5 9 odd)
- B. Add and subtract polynomials (11 15 odd)
- C. Multiply polynomials using the distributive property (3, 17 37 odd, 53)
- D. Perform operations with polynomials of several variables (39 51 odd)

Suggested Homework Exercises: 1 – 53 odd

1.5 Factoring Polynomials

Topics:

- A. Factor the greatest common factor (GCF) of a polynomial (1, 5 9 odd)
- B. Factor a trinomial by grouping (AC Method) (3, 11 15 odd)
- C. Factor a trinomial by trial and error (17 35 odd)
- D. Factor a difference of squares (17 35 odd)
- E. Factor the sum and difference of cubes (37 43 odd)
- F. Factor expressions using fractional or negative exponents (45 49 odd)

Suggested Homework Exercises: 1 – 49 odd







1.6 Rational Expressions

Topics:

- A. Simplify rational expressions (1, 5 13 odd)
- B. Multiply rational expressions (15 23 odd)
- C. Divide rational expressions (25 31 odd, 53)
- D. Add and subtract rational expressions (3, 33 41 odd)
- E. Simplify complex rational expressions (43 51 odd)

Suggested Homework Exercises: 1 – 53 odd

CHAPTER 2 – EQUATIONS AND INEQUALITIES

2.1 The Rectangular Coordinate System and Graphs

Topics:

- A. Plot ordered pairs in a Cartesian Coordinate System (1, 27 33 odd)
- B. Graph equations by plotting points (35 41 odd)
- C. Find x and y-intercepts (3, 5 15 odd)
- D. Use the distance formula (17 21 odd, 43 47 odd)
- E. Use the midpoint formula (23, 25)

Suggested Homework Exercises: 1 – 47 odd

2.2 Linear Equations in One Variables

Topics:

- A. Solve equations in one variable algebraically (7 15 odd)
- B. Solve a rational equation (5, 17 21 odd)
- C. Find a linear equation (3, 23 35 odd, 41, 43, 55 59 odd)
- D. Given the equations of two lines, determine whether their graphs are parallel or perpendicular (1, 37, 39, 45)

E. Write the equation of a line parallel or perpendicular to a given line (29) **Suggested Homework Exercises: 1 – 45 odd, 55 – 59 odd**

2.3 Models and Applications

Topics:

- A. Set up a linear equation to solve a real-world application (1 15 odd)
- B. Use a formula to solve a real-world application (17 31 odd)

C. Solve a formula for a given variable (33 – 53 odd)

Suggested Homework Exercises: 1 – 53 odd

2.4 Complex Numbers

Topics:

- A. Express square roots of negative numbers as multiples of i (5 9 odd, 35)
- B. Plot a complex number on the complex plane (11, 13)
- C. Add and subtract complex numbers (1, 15 19 odd)
- D. Multiply and divide complex numbers (21 33 odd, 37)
- E. Simplify powers of I (39, 41)

Suggested Homework Exercises: 1 – 41 odd







2.5 Quadratic Equations

Topics:

- A. Solve quadratic equations by factoring (1, 3, 7 17 odd)
- B. Solve quadratic equations by using the square root property (5, 19 23 odd)
- C. Solve quadratic equations by completing the square (25 31 odd)

D. Solve quadratic equations by using the quadratic formula (33 - 43 odd, 55, 57)

Suggested Homework Exercises: 1 – 43 odd, 55, 57

2.6 Other Types of Equations (Part 1)

Topics:

- A. Solve polynomial equations by factoring (13 19 odd)
- B. Solve polynomial equations in quadratic form (1, 37 41 odd)
- C. Solve equations involving rational exponents (3 11 odd)
- D. Solve absolute value equations (29 35 odd)

Suggested Homework Exercises: 1 – 19 odd, 29 – 41 odd

2.6 Other Types of Equations (Part 2)

Topics:

- E. Solve rational equations resulting in a quadratic
- F. Solve radical equations (21 27 odd)

Suggested Homework Exercises: 21 – 27 odd

2.7 Linear Inequalities and Absolute Value Inequalities Topics:

- A. Using interval notation and set notation (1, 3, 43 53 odd)
- B. Solve inequalities in one variable algebraically (7 13 odd, 39, 41)
- C. Solve compound inequalities (29, 31)
- D. Solve absolute value inequalities (5, 15 27 odd, 33 37 odd)

Suggested Homework Exercises: 1 – 53 odd

CHAPTER 3 - FUNCTIONS

3.1 Functions and Function Notation (Part 1)

Topics:

- A. Determine whether a relation represents a function (1 25 odd, 61 67 odd)
- B. Find the value of a function (27 39 odd, 69 73 odd, 89, 91)
- C. Read information from the graph of a function (53)

Suggested Homework Exercises: 1 - 39 odd, 53, 61 - 73 odd, 89, 91

3.1 Functions and Function Notation (Part 2)

Topics:

- D. Use the vertical line test to identify functions (41 51 odd)
- E. Use the horizontal line test to identify one-to-one functions (55 59 odd)
- F. Graph the functions listed in the library of functions

Suggested Homework Exercises: 41 – 51 odd, 55 – 59 odd







3.2 Domain and Range

Topics:

A. Find the domain of a function defined by an equation (1, 3, 7 – 37 odd, 61)
B. Graph piecewise defined functions (5, 39 – 53 odd)
Suggested Homework Exercises: 1 – 53 odd, 61

3.3 Rates of Change and Behavior of Graphs

Topics:

- A. Find the average rate of change of a function (1, 5 17 odd, 27 33 odd, 43 47 odd)
- B. Use a graph to determine where a function is increasing, decreasing, or constant (19, 21)
- C. Use a graph to locate local maxima and local minima (23)
- D. Use a graph to locate absolute maximum and absolute minimum (3, 25, 41)

Suggested Homework Exercises: 1 – 33 odd, 41 – 47 odd

3.4 Composition of Functions

Topics:

- A. Combine functions using algebraic operations (5 9 odd)
- B. Create a new function by composition of functions (3, 13 25 odd)
- C. Evaluate composite functions (11, 43 79 odd)
- D. Find the domain of a composite function (1, 5 9 odd)
- E. Decompose a composite function into its component functions (27 41 odd) **Suggested Homework Exercises: 1 79 odd**

3.5 Transformation of Functions (Part 1)

Topics:

- A. Graph functions using vertical and horizontal shifts (1, 7 29 odd)
- B. Graph functions using reflections about the x-axis and y-axis (33 45 odd)
- C. Determine whether a function is even, odd, or neither (5, 47 51 odd)

Suggested Homework Exercises: 1, 5 – 29 odd, 33 – 51 odd

3.5 Transformation of Functions (Part 2)

Topics:

D. Graph functions using compressions and stretches (3, 53 - 61 odd)

E. Combine transformations (63 – 81 odd)

Suggested Homework Exercises: 3, 53 – 81 odd

3.6 Absolute Value Functions

Topics:

- A. Graph an absolute value function (9 31 odd)
- B. Solve an absolute value equation (1 7, and 11 23 odd in Section 1.6 of the Precalculus book)

Suggested Homework Exercises: 1 – 31 odd, also 11 – 23 odd in Section 1.6 of the Precalculus book







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3.7 Inverse Functions

Topics:

- A. Verify inverse functions (1, 3, 17)
- B. Determine the domain and range of an inverse function (13, 15)
- C. Find the inverse of a function (5, 7 15 odd, 33 41 odd)
- D. Use the graph of a one-to-one function to graph its inverse function on the same axes (19 31 odd)

Suggested Homework Exercises: 1 – 41 odd

CHAPTER 4 – LINEAR FUNCTIONS

4.1 Linear Functions (Part 1)

Topics:

- A. Represent a linear function (1)
- B. Calculate and interpret slope (15 27 odd)
- C. Write the point-slope form of an equation (29 35 odd)

D. Write and interpret a linear function (7 – 13 odd, 89 – 95, 115 – 121 odd)

Suggested Homework Exercises: 1, 7 – 35 odd, 89 – 95 odd, 115 – 121 odd

4.1 Linear Functions (Part 2)

Topics:

- A. Graph linear functions (41 45 odd, 71 83 odd)
- B. Write the equation for a linear function from the graph of a line (57 69 odd, 85, 87)
- C. Determine whether lines are parallel or perpendicular (37, 39, 47 51 odd)
- D. Write the equation of a line parallel or perpendicular to a given line (53, 55)

Suggested Homework Exercises: 37 – 87 odd

4.2 Modeling with Linear Functions

Topics:

- A. Identify steps to model and solve problems (1, 3)
- B. Build linear models from verbal descriptions (9 43 odd)
- C. Build systems of linear models (45 57 odd)

Suggested Homework Exercises: 1, 3, 9 – 57 odd

4.3 Fitting Linear Models to Data

Topics:

- A. Draw and interpret scatter plots (9 17 odd)
- B. Find the line of best fit and use it to make predictions (1, 7, 19, 21)
- C. Distinguish between linear and nonlinear relations (3, 5, 23)

Suggested Homework Exercises: 1 – 23 odd





CHAPTER 5 – POLYNOMIAL AND RATIONAL FUNCTIONS

5.1 Quadratic Functions

Topics:

- A. Recognize characteristics of parabolas (1 45 odd)
- B. Understand how the graph of a parabola is related to its quadratic function (1 13 odd, 21 33 odd)
- C. Graph parabolas using their characteristics (35 45 odd)
- D. Solve applications involving a quadratic function's minimum or maximum value (15 19 odd, 71, 73)

Suggested Homework Exercises: 1 – 45 odd, 71, 73

5.2 Power Functions and Polynomial Functions

Topics:

- A. Identify power functions (1, 7 11 odd)
- B. Identify end behavior of power functions (3, 5, 17 23 odd, 47, 49)
- C. Identify polynomial functions (7 11 odd, 25 29 odd)
- D. Identify the degree and leading coefficient of polynomial functions (13, 15)
- E. Identify the turning points of polynomial functions (31 45 odd)

Suggested Homework Exercises: 1 – 49 odd

5.3 Graphs of Polynomial Functions

Topics:

- A. Use factoring to find zeros of polynomial functions (1, 7 23 odd)
- B. Identify zeros and their multiplicities (31 41 odd)
- C. Use the Intermediate Value Theorem (3, 25 29 odd)
- D. Graph polynomial functions (5, 43 47 odd)
- E. Use given information to write the equation of a polynomial (49 65 odd)

Suggested Homework Exercises: 1 – 65 odd

5.4 Dividing Polynomials

Topics:

- A. Use long division to divide polynomials (1 13 odd)
- B. Use synthetic division to divide polynomials (15 43 odd, 49 53 odd)
- C. Use polynomial division to divide polynomials (65 69 odd)

Suggested Homework Exercises: 1 – 43 odd, 49 – 53 odd, 65 – 69 odd

5.5 Zeros of Polynomial Functions (Part 1)

Topics:

- A. Evaluate a polynomial using the Remainder Theorem (1, 7 13 odd)
- B. Use the Factor Theorem to solve a polynomial equation (15 21 odd)
- C. Use the Rational Zeros Theorem to find possible rational zeros (3, 5, 57, 59)
- D. Use Descartes' Rule of Signs (47 55 odd)
- E. Find zeros of a polynomial function (23 31 odd)

Suggested Homework Exercises: 1 - 31 odd, 47 - 59 odd







5.5 Zeros of Polynomial Functions (Part 2) Topics:
E. Find zeros of a polynomial function (33 – 45 odd)
F. Use the Fundamental Theorem of Algebra (41 – 45 odd)
G. Use the Conjugate Pairs Theorem (67, 69)
Suggested Homework Exercises: 33 – 45 odd, 67, 69

5.6 Rational Functions (Part 1)

Topics:

- A. Find the domain of a rational function (1 19 odd)
- B. Identify vertical asymptotes (11 19 odd, 75 79 odd)
- C. Identify horizontal and oblique (slant) asymptotes (11 19 odd, 31, 33)
- D. Identify x- and y-intercepts of rational functions (21, 23)

Suggested Homework Exercises: 1 – 23 odd, 31, 33, 75 – 79 odd

5.6 Rational Functions (Part 2)

Topics:

- E. Graph rational functions (39 49 odd)
- F. Write the equation of a rational function (51 63 odd)

Suggested Homework Exercises: 39 – 63 odd

5.7 Inverses and Radical Functions

Topics:

- A. Find the inverse of a polynomial function (1 39 odd)
- B. Restrict the domain to find the inverse of a polynomial function (17 39 odd) **Suggested Homework Exercises: 1 39 odd**

5.8 Modeling Using Variation

Topics:

- A. Solve direct variation problems (1, 5 9 odd, 25, 27)
- B. Solve inverse variation problems (11 15 odd, 35 39 odd)
- C. Solve problems involving joint variation (3, 17 23 odd, 29 33 odd)
- D. Solve applications using variation models (51 59 odd)

Suggested Homework Exercises: 1 – 39 odd, 51 – 59 odd

CHAPTER 6 – EXPONENTIAL AND LOGARITHMIC FUNCTIONS

6.1 Exponential Functions

Topics:

- A. Evaluate exponential functions (1 11 odd, 15, 17, 45, 61, 63)
- B. Find the equation of an exponential function (19 27 odd)
- C. Use the compound interest formula (29 35 odd)
- D. Evaluate exponential functions with base e (39 43 odd, 47, 49, 65, 67)

Suggested Homework Exercises: 1 - 11odd, 15 - 35 odd, 39 - 49 odd, 61 - 67 odd



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6.2 Graphs of Exponential Functions

Topics:

A. Graph exponential functions (1, 9, 11)

B. Graph exponential functions using transformations (3 – 7 odd, 23 – 41 odd) **Suggested Homework Exercises: 1 – 11odd, 23 – 41 odd**

6.3 Logarithmic Functions

Topics:

- A. Convert from logarithmic form to exponential form (1, 3, 7 15 odd, 27 35 odd)
- B. Convert from exponential form to logarithmic form (17 25 odd)
- C. Evaluate logarithms (37, 43 49 odd, 57)
- D. Use natural logarithms (5, 39, 41, 51 55 odd)
- Suggested Homework Exercises: 1 57 odd

6.4 Graphs of Logarithmic Functions

Topics:

A. Identify the domain of a logarithmic function (3, 7 – 25 odd)

B. Graph logarithmic functions using transformations (1, 5, 27 – 45 odd)

Suggested Homework Exercises: 1 – 45 odd

6.5 Logarithmic Properties

Topics:

- A. Use the product rule for logarithms (3, 9, 15 21 odd)
- B. Use the quotient rule for logarithms (5, 7, 11, 15, 21, 23)
- C. Use the power rule for logarithms (1, 13, 15 23 odd, 31)
- D. Expand logarithmic expressions (3 7 odd, 15 19 odd)
- E. Condense logarithmic expressions (9 13 odd, 21, 23)
- F. Use the change-of-base formula (25 29 odd, 33 37 odd)

Suggested Homework Exercises: 1 – 37 odd

6.6 Exponential and Logarithmic Equations

Topics:

- A. Use like bases to solve exponential equations (1 9 odd)
- B. Use logarithms to solve exponential equations (11 27 odd)
- C. Use the definition of a logarithm to solve logarithmic equations (29 35 odd)
- D. Use the one-to-one property of logarithms to solve logarithmic equations (3, 37 49 odd)

Suggested Homework Exercises: 1 – 49 odd

6.7 Exponential and Logarithmic Models

Topics:

- A. Model exponential growth and decay (1 5, 28 33 all, 35 39 odd)
- B. Use Newton's Law of Cooling (40 45 all)
- C. Use logistic-growth models (7, 9)
- D. Choose an appropriate model for data (11)

Suggested Homework Exercises: 1 – 11 odd, 28 – 33 all, 35 – 39 odd, 40 – 45 all







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CHAPTER 7 – SYSTEMS OF EQUATIONS AND INEQUALITIES

7.1 Systems of Linear Equations: Two Variables

Topics:

- A. Solve systems of equations by graphing (41 45 odd)
- B. Solve systems of equations by substitution (1 19 odd)
- C. Solve systems of equations by addition (elimination) (21 39 odd)
- D. Use systems of equations to investigate profits (57 77 odd)

Suggested Homework Exercises: 1 – 45 odd, 57 – 77 odd

7.2 Systems of Linear Equations: Three Variables

Topics:

- A. Solve systems of three equations in three variables (1 29 odd, 37, 51 59 odd)
- B. Identify inconsistent systems of equations containing three variables (1 – 29 odd, 37, 51 – 59 odd)
- C. Express the solution of a system of dependent equations containing three variables (1 29 odd, 37, 51 59 odd)

Suggested Homework Exercises: 1 – 29 odd, 37, 51 – 59 odd

7.3 Systems of Nonlinear Equations and Inequalities: Two Variables Topics:

- A. Solve a system of nonlinear equations using substitution (7, 9, 17, 21, 25 35 odd)
- B. Solve a system of nonlinear equations using elimination
 - (11 15 odd, 17, 21, 25 35 odd)
- C. Graph a nonlinear inequality (39)
- D. Graph a system of nonlinear inequalities (41)

Suggested Homework Exercises: 7 – 17 odd, 21, 25 – 35 odd, 39, 41

7.4 Partial Fractions (Part 1)

Topics:

- A. Decompose $\frac{P(x)}{Q(x)}$, where Q(x) has only non-repeated linear factors (1, 7 19 odd)
- B. Decompose $\frac{P(x)}{O(x)}$, where Q(x) has repeated linear factors (21 27 odd)

Suggested Homework Exercises: 1, 7 – 27 odd





7.4 Partial Fractions (Part 2)

- Topics:
- C. Decompose $\frac{P(x)}{Q(x)}$, where Q(x) has a non-repeated irreducible quadratic factor (31 41 odd)
- D. Decompose $\frac{P(x)}{Q(x)}$, where Q(x) has a repeated irreducible quadratic factor (45 51 odd)

Suggested Homework Exercises: 31 - 41 odd, 45 - 51 odd

7.5 Matrices and Matrix Operations

Topics:

- A. Find the sum and differences of two matrices (1, 7 11 odd, 25 29 odd)
- B. Find scalar multiples of a matrix (13 17 odd, 25 29 odd)
- C. Find the product of two matrices (3, 5, 19 45 odd)

Suggested Homework Exercises: 1 – 45 odd

7.6 Solving Systems with Gaussian Elimination

Topics:

- A. Write the augmented matrix of a system of equations (1, 7, 9)
- B. Write the system of equations from an augmented matrix (11 15 odd)
- C. Perform row operations on a matrix (17 43 odd)
- D. Solve a system of linear equations using matrices (17 43 odd)

Suggested Homework Exercises: 1, 7 – 43 odd

7.7 Solving Systems with Inverses

Topics:

- A. Find the inverse of a matrix (1 23 odd)
- B. Solve a system of linear equations using an inverse matrix (27 39 odd) **Suggested Homework Exercises: 1 23 odd, 27 39 odd**

7.8 Solving Systems with Cramer's Rule

Topics:

- A. Evaluate 2 X 2 determinants (1 13 odd)
- B. Use Cramer's Rule to solve a system of equations in two variables (25 33 odd, 49)
- C. Evaluate 3 X 3 determinants (15 21 odd)
- D. Use Cramer's Rule to solve a system of three equations in three variables (37 – 43 odd, 51)

Suggested Homework Exercises: 1 – 21 odd, 25 – 43 odd, 49, 51







CHAPTER 8 – ANALYTIC GEOMETRY

8.1 The Ellipse (Part 1)

Topics: A. Write equations of ellipses in standard form (1 – 25 odd, 47 – 55 odd) **Suggested Homework Exercises: 1 – 25 odd, 47 – 55 odd**

8.1 The Ellipse (Part 2)

Topics:

B. Graph ellipses centered at the origin (33, 35)

- C. Graph ellipses not centered at the origin (37 45 odd)
- D. Solve applied problems involving ellipses (65, 67)

Suggested Homework Exercises: 33 – 45 odd, 65, 67

8.2 The Hyperbola

Topics:

- A. Write equations of hyperbolas in standard form (1 25 odd, 45 55 odd)
- B. Graph hyperbolas centered at the origin (31, 33)
- C. Graph hyperbolas not centered at the origin (35 43 odd)
- Suggested Homework Exercises: 1 25 odd, 31 55 odd

8.3 The Parabola

Topics:

- A. Write equations of parabolas in standard form (1 29 odd, 45 55 odd)
- B. Graph parabolas with vertices at the origin (31, 33)
- C. Graph parabolas with vertices not at the origin (35 43 odd)
- D. Solve applied problems involving parabolas (63 67 odd)

Suggested Homework Exercises: 1 – 55 odd, 63 – 67 odd

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- 8.5 This section is not covered in this video library

CHAPTER 9 – SEQUENCES, PROBABILITY, and COUNTING THEORY

9.1 Sequences and Their Notations

Topics:

A. Write the terms of a sequence defined by an explicit formula (1, 3, 7 – 25 odd)

B. Write the terms of a sequence defined by a recursive formula (27 – 37 odd)

C. Use factorial notation (5, 39 – 45 odd)

Suggested Homework Exercises: 1 – 45 odd







9.2 Arithmetic Sequences

Topics:

- A. Find the common difference for an arithmetic sequence (1 9 odd)
- B. Write terms of an arithmetic sequence (11, 13)
- C. Use a recursive formula for an arithmetic sequence (27 39 odd)
- D. Use an explicit formula for an arithmetic sequence (15 25 odd, 41 55 odd)

Suggested Homework Exercises: 1 – 55 odd

9.3 Geometric Sequences

Topics:

- A. Find the common ratio for a geometric sequence (1 13 odd)
- B. Write the terms of a geometric sequence (15)
- C. Use a recursive formula for a geometric sequence (19 31 odd, 45)
- D. Use an explicit formula for a geometric sequence (33 43 odd)

Suggested Homework Exercises: 1 – 15 odd, 19 – 45 odd

9.4 Series and Their Notations

Topics:

- A. Use summation notation (1, 7, 9)
- B. Use the formula for the sum of the first n terms of an arithmetic series (13, 15, 31, 35, 37)
- C. Use the formula for the sum of the first n terms of a geometric series (19, 21, 33, 39, 41)

D. Use the formula for the sum of an infinite geometric series (23, 25, 43, 45) **Suggested Homework Exercises: 1, 7, 9, 13, 15, 19 – 25 odd, 31 – 45 odd**

9.5 Counting Principles (Part 1)

Topics:

- A. Solve counting problems using the Addition Principle (1, 3, 7 13 odd)
- B. Solve counting problems using the Multiplication Principle (3, 7 13 odd, 41 45 odd)
- C. Solve counting problems using permutations involving n distinct objects (15 19 odd, 47)
- D. Solve counting problems. using permutations involving n non-distinct objects (31, 33, 53)

Suggested Homework Exercises: 1, 3, 7 - 19 odd, 31, 33, 41 - 47 odd, 53

9.5 Counting Principles (Part 2)

Topics:

- E. Solve counting problems using combinations (5, 49, 51)
- F. Find the number of subsets of a given set (21 29 odd)
- G. Mixed Practice (49, 51)

Suggested Homework Exercises: 5, 21 – 29 odd, 49, 51







9.6 The Binomial Theorem

Topics:

A. Identify binomial coefficients (1, 5 – 11 odd)

- B. Use the Binomial Theorem (3, 13 19 odd, 23 27 odd)
- C. Use the Binomial Theorem to find a single term (31 37 odd)

Suggested Homework Exercises: 1 – 19 odd, 23 – 27 odd, 31 – 37 odd

9.7 Probability

Topics:

- A. Construct probability models (1 5 odd)
- B. Compute the probability of equally likely outcomes (7, 15, 17, 19, 27 33 odd)
- C. Compute the probability of the union of two events (21, 35)
- D. Compute the probability of mutually exclusive events (9 13 odd, 25, 37 45 odd)
- E. Use the complement rule to find probabilities (13, 23)

Suggested Homework Exercises: 1 – 45 odd

