

Chapter 0: Preparing for Advanced Algebra

0-1 Representing Functions

http://www.khanacademy.org/math/algebra/algebra-functions/domain_and_range/v/domain-and-range-of-a-relation

<http://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-geometry-topic/cc-6th-coordinate-plane/v/quadrants-of-coordinate-plane>

<http://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-geometry-topic/cc-6th-coordinate-plane/v/points-on-the-coordinate-plane>

0-2 FOIL

<http://www.khanacademy.org/math/algebra/multiplying-factoring-expression/multiplying-binomials/v/multiplying-binomials>

<http://www.khanacademy.org/math/algebra/multiplying-factoring-expression/multiplying-binomials/v/level-1-multiplying-expressions>

0-3 Factoring Polynomials

<http://www.khanacademy.org/math/algebra/multiplying-factoring-expression/factoring-quadratic-expressions/v/factoring-quadratic-expressions>

<http://www.khanacademy.org/math/algebra/multiplying-factoring-expression/factoring-quadratic-expressions/v/factoring-trinomials-with-a-common-factor>

<http://www.khanacademy.org/math/algebra/multiplying-factoring-expression/factoring-special-products/v/factoring-special-products>

0-4 Counting Techniques

http://www.khanacademy.org/math/probability/probability-and-combinatorics-topic/permutations_and_combinations/v/permutations

http://www.khanacademy.org/math/probability/probability-and-combinatorics-topic/permutations_and_combinations/v/combinations

0-5 Adding Probabilities

http://www.khanacademy.org/math/probability/independent-dependent-probability/basic_probability/v/basic-probability

http://www.khanacademy.org/math/probability/independent-dependent-probability/basic_probability/v/probability-space-exercise-example

http://www.khanacademy.org/math/probability/independent-dependent-probability/basic_probability/v/simple-probability

http://www.khanacademy.org/math/probability/independent-dependent-probability/addition_rule_probability/v/addition-rule-for-probability

http://www.khanacademy.org/math/probability/independent-dependent-probability/addition_rule_probability/v/addition-rule-for-probability

0-6 Multiplying Probabilities

http://www.khanacademy.org/math/probability/independent-dependent-probability/dependent_probability/v/introduction-to-dependent-probability

http://www.khanacademy.org/math/probability/independent-dependent-probability/dependent_probability/v/independent-events-1

http://www.khanacademy.org/math/probability/independent-dependent-probability/dependent_probability/e/multiplying-dependent-probabilities

http://www.khanacademy.org/math/probability/independent-dependent-probability/dependent_probability/v/calculating-conditional-probability

0-7 Congruent and Similar Figures

http://www.khanacademy.org/math/geometry/similarity/triangle_similarity/v/similar-triangle-basics

http://www.khanacademy.org/math/geometry/similarity/triangle_similarity/v/similarity-example-problems

0-8 The Pythagorean Theorem

http://www.khanacademy.org/math/geometry/right_triangles_topic/pyth_theor/v/pythagorean-theorem

http://www.khanacademy.org/math/geometry/right_triangles_topic/pyth_theor/v/pythagorean-theorem-2

http://www.khanacademy.org/math/geometry/right_triangles_topic/pyth_theor/v/pythagorean-theorem-3

Chapter 1: Equations and Inequalities

1-1 Expressions and Formula

http://www.khanacademy.org/math/pre-algebra/order-of-operations/order_of_operations/v/introduction-to-order-of-operations

http://www.khanacademy.org/math/pre-algebra/order-of-operations/order_of_operations/v/order-of-operations-1

1-2 Properties of Real Numbers

http://www.khanacademy.org/math/pre-algebra/order-of-operations/arithmetic_properties/v/commutative-law-of-addition

http://www.khanacademy.org/math/pre-algebra/order-of-operations/arithmetic_properties/v/associative-law-of-multiplication

<http://www.khanacademy.org/math/pre-algebra/order-of-operations/rational-irrational-numbers/v/introduction-to-rational-and-irrational-numbers>

1-3 Solving Equations

<http://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/basic-equation-practice/v/steps-when-solving-equations>

<http://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/solutions-linear-equations/v/equation-special-cases>

http://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/solving_for_variable/v/rearrange-formulas-to-isolate-specific-variables

1-3 Solving Absolute Value Equations

<http://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/absolute-value-equations/v/absolute-value-equations>

1-4 Solving Inequalities

<http://www.khanacademy.org/math/algebra-basics/core-algebra-linear-equations-inequalities/core-algebra-linear-inequalities/v/inequalities-using-multiplication-and-division>

1-5 Solving Compound and Absolute Value Inequalities

<https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/absolute-value-equations/v/absolute-value-inequalities>

http://www.khanacademy.org/math/algebra/linear_inequalities/compound_absolute_value_inequali/v/compound-inequalities

Chapter 2: Linear Relations and Functions

2-1 Relations and Functions

http://www.khanacademy.org/math/algebra2/functions_and_graphs/function-introduction/v/relations-and-functions

http://www.khanacademy.org/math/algebra2/functions_and_graphs/function-introduction/v/linear-function-graphs

2-2 Linear Relations and Functions

http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/graphing_solutions2/v/recognizing-linear-functions

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/point-slope-form/v/linear-equations-in-standard-form>

2-3 Rate of Change and Slope

<http://www.khanacademy.org/math/algebra-basics/core-algebra-graphing-lines-slope/core-algebra-slope/v/slope-of-a-line>

<http://www.khanacademy.org/math/algebra-basics/core-algebra-graphing-lines-slope/core-algebra-slope/v/slope-and-rate-of-change>

2-4 Writing Linear Equations

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/point-slope-form/v/point-slope-and-standard-form>

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/point-slope-form/v/converting-from-point-slope-to-slope-intercept-form>

2-5 Scatter Plots and Lines of Regression

<http://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-data/cc-8th-scatter-plots/v/constructing-scatter-plot>

2-6 Special Functions

http://www.khanacademy.org/math/algebra2/functions_and_graphs/piecewise-functions-tutorial/v/finding-a-piecewise-function-definition-from-graph

http://www.khanacademy.org/math/algebra2/functions_and_graphs/piecewise-functions-tutorial/e/piecewise-graphs-linear

2-8 Graphing Linear and Absolute Value Inequalities

http://www.khanacademy.org/math/algebra/linear_inequalities/compound_absolute_value_inequali/v/absolute-value-inequalities

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/graphing-linear-inequalities/v/graphing-inequalities-1>

Chapter 3: Systems of Equations and Inequalities

3-1 Solving Systems of Equations

<http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/fast-systems-of-equations/v/solving-linear-systems-by-graphing>

<http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/fast-systems-of-equations/v/solving-linear-systems-by-substitution>

<http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/fast-systems-of-equations/v/solving-systems-of-equations-by-elimination>

3-2 Solving Systems of Inequalities

http://www.khanacademy.org/math/algebra2/systems_eq_ineq/systems_inequalities_precalc/v/u06-l3-t1-we3-graphing-systems-of-inequalities

3-3 Linear Programming

http://www.khanacademy.org/math/algebra2/functions_and_graphs/piecewise-functions-tutorial/e/piecewise-graphs-linear

3-4 Systems of Equations in Three Variables

<http://www.khanacademy.org/math/algebra/systems-of-eq-and-ineq/fancier-systems/v/systems-of-three-variables>

3-5 Operations with Matrices

http://www.khanacademy.org/math/prec calculus/prec calc-matrices/Basic_matrix_operations/v/matrix-addition-and-subtraction-1

http://www.khanacademy.org/math/prec calculus/prec calc-matrices/Basic_matrix_operations/v/introduction-to-the-matrix

3-6 Multiplying Matrices

http://www.khanacademy.org/math/prec calculus/prec calc-matrices/Basic_matrix_operations/v/scalar-multiplication

http://www.khanacademy.org/math/prec calculus/prec calc-matrices/matrix_multiplication/v/matrix-multiplication-intro

3-7 Cramer's Rule and Determinants

http://www.khanacademy.org/math/prec calculus/prec calc-matrices/inverting_matrices/v/finding-the-determinant-of-a-2x2-matrix

https://www.khanacademy.org/math/prec calculus/prec calc-matrices/inverting_matrices/v/matrices-to-solve-a-system-of-equations

3-8 Inverse of a Matrix

http://www.khanacademy.org/math/prec calculus/prec calc-matrices/inverting_matrices/v/inverse-of-a-2x2-matrix

Chapter 4: Quadratic Functions and Relations

4-1 Graphing Quadratic Functions

https://www.khanacademy.org/math/algebra/quadratics/solving_graphing_quadratics/v/graphing-a-quadratic-function

https://www.khanacademy.org/math/algebra/quadratics/solving_graphing_quadratics/v/quadratic-functions-2

4-2 Solving Quadratic Functions by Graphing

https://www.khanacademy.org/math/algebra/quadratics/solving_graphing_quadratics/v/graphing-a-parabola-using-roots-and-vertex

4-3 Solving Quadratics by Factoring

https://www.khanacademy.org/math/algebra/quadratics/quadratic_odds_ends/v/solving-a-quadratic-by-factoring

4-4 Complex Numbers

https://www.khanacademy.org/math/algebra2/complex-numbers-a2/complex_numbers/v/introduction-to-complex-numbers

https://www.khanacademy.org/math/algebra2/complex-numbers-a2/complex_numbers/v/adding-complex-numbers

https://www.khanacademy.org/math/algebra2/complex-numbers-a2/complex_numbers/v/multiplying-complex-numbers

https://www.khanacademy.org/math/algebra2/complex-numbers-a2/complex_numbers/v/dividing-complex-numbers

4-5 Completing the Square

https://www.khanacademy.org/math/algebra/quadratics/completing_the_square/v/ex1-completing-the-square

https://www.khanacademy.org/math/algebra/quadratics/completing_the_square/v/completing-the-square-to-solve-quadratic-equations

4-6 Quadratic Formula

<https://www.khanacademy.org/math/algebra/quadratics/quadratic-formula/v/quadratic-formula-1>

<https://www.khanacademy.org/math/algebra/quadratics/quadratic-formula/v/quadratic-formula-3>

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/quad_formula_tutorial/v/discriminant-of-quadratic-equations

4-7 Transformations of Quadratic Graphs

https://www.khanacademy.org/math/algebra2/functions_and_graphs/shifting-reflecting-functions/v/shifting-and-reflecting-functions

4-8 Quadratic Inequalities

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/quad_ineq/v/quadratic-inequalities

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/quad_ineq/v/quadratic-inequalities-visual-explanation

Chapter 5: Polynomial and Polynomial Functions

5-1 Operations with Polynomials

<https://www.khanacademy.org/math/pre-algebra/exponents-radicals/exponent-properties/v/exponent-rules-part-1>

<https://www.khanacademy.org/math/pre-algebra/exponents-radicals/exponent-properties/v/exponent-rules-part-2>

<https://www.khanacademy.org/math/algebra-basics/core-algebra-exponent-expressions/core-alg-negative-exponents/v/introduction-to-negative-exponents>

5-2 Dividing Polynomials

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/dividing_polynomials/v/dividing-polynomials-with-remainders-example

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/synthetic-division/v/synthetic-division

5-3 Polynomial Functions

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/polynomial-end-behavior/v/polynomial-end-behavior

5-4 Analyzing Graphs

https://www.khanacademy.org/math/differential-calculus/derivative_applications/absolute-relative-maxima-minima/v/identifying-relative-extrema

5-5 Solving Polynomial Equations

<https://www.khanacademy.org/math/algebra/multiplying-factoring-expression/factoring-by-grouping/v/factor-by-grouping-and-factoring-completely>

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/factoring-higher-deg-polynomials/v/difference-of-cubes-factoring

5-6 Remainder and Factor Theorems

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/polynomial-remainder-theorem-tutorial/v/polynomial-remainder-theorem-to-test-factor

5-7 Roots and Zeros

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/factoring-higher-deg-polynomials/v/factoring-5th-degree-polynomial-to-find-real-zeros

5-8 Rational Zero Theorem

https://www.khanacademy.org/math/algebra2/polynomial_and_rational/fundamental-theorem-of-algebra/v/possible-real-roots

Chapter 6: Inverses and Radical Functions and Relations

6-1 Operations on Functions

http://www.khanacademy.org/math/algebra2/functions_and_graphs/composing-functions/v/evaluating-composite-functions-example-1

6-2 Inverse Functions and Relations

http://www.khanacademy.org/math/algebra2/functions_and_graphs/mathy-functions/v/linear-algebra-introduction-to-the-inverse-of-a-function

http://www.khanacademy.org/math/algebra2/functions_and_graphs/mathy-functions/v/a-more-formal-understanding-of-functions

6-3 Square Root Functions and Inequalities

http://www.khanacademy.org/math/algebra2/functions_and_graphs/shifting-reflecting-functions/e/graphs-of-radical-functions

6-4 nth Roots

<http://www.khanacademy.org/math/algebra/exponent-equations/simplifying-radical-expressions/v/radical-expressions-with-higher-roots>

6-5 Operations with Radical Expressions

<http://www.khanacademy.org/math/algebra/exponent-equations/simplifying-radical-expressions/v/subtracting-and-simplifying-radicals>

<http://www.khanacademy.org/math/algebra/exponent-equations/simplifying-radical-expressions/v/adding-and-simplifying-radicals>

<http://www.khanacademy.org/math/algebra/exponent-equations/simplifying-radical-expressions/v/simplifying-cube-roots>

<http://www.khanacademy.org/math/algebra/exponent-equations/simplifying-radical-expressions/v/multiply-and-simplify-a-radical-expression-2>

<http://www.khanacademy.org/math/algebra/exponent-equations/simplifying-radical-expressions/v/how-to-rationalize-a-denominator>

6-6 Rational Exponents

<http://www.khanacademy.org/math/algebra/exponent-equations/fractional-exponents-tut/v/basic-fractional-exponents>

<http://www.khanacademy.org/math/algebra/exponent-equations/fractional-exponents-tut/v/simplifying-with-exponent-properties>

<http://www.khanacademy.org/math/algebra/exponent-equations/fractional-exponents-tut/v/negative-fractional-exponent-examples>

6-7 Radical Equations

http://www.khanacademy.org/math/algebra/exponent-equations/radical_equations/v/solving-radical-equations

http://www.khanacademy.org/math/algebra/exponent-equations/radical_equations/v/solving-radical-equations-3

http://www.khanacademy.org/math/algebra/exponent-equations/radical_equations/v/solving-radical-equations-2

Chapter 7: Exponential and Logarithmic Functions and Relations

7-1 Graphing Exponential Functions

http://www.khanacademy.org/math/algebra/algebra-functions/graphing_functions/v/graphing-exponential-functions

7-2 Solving Exponential Equations and Inequalities

http://www.khanacademy.org/math/algebra2/exponential_and_logarithmic_func/exponential-modeling/v/solve-exponentials

7-3 Logarithms and Logarithmic Functions

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_basics/v/logarithms

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_basics/v/fancier-logarithm-expressions

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_basics/v/exponential-to-logarithmic-form

7-4 Solving Logarithmic Equations and Inequalities

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_basics/v/exponential-equation

7-5 Properties of Logarithms

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_properties/v/introduction-to-logarithm-properties

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_properties/v/logarithm-of-a-power

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_properties/v/sum-of-logarithms-with-same-base

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_properties/v/using-multiple-logarithm-properties-to-simplify

7-6 Common Logarithms

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_properties/v/change-of-base-formula

7-7 Base e and Natural Logarithms

http://www.khanacademy.org/math/algebra2/logarithms-tutorial/natural_logarithm/v/natural-logarithm-with-a-calculator

Chapter 8: Rational Functions and Relations

8-1 Multiplying and Dividing Rational Expressions

<http://www.khanacademy.org/math/algebra2/rational-expressions/multi-div-rational-exp/v/multiplying-and-dividing-rational-expressions-3>

<http://www.khanacademy.org/math/algebra2/rational-expressions/multi-div-rational-exp/v/multiplying-and-dividing-rational-expressions-1>

<http://www.khanacademy.org/math/algebra2/rational-expressions/multi-div-rational-exp/v/multiplying-and-dividing-rational-expressions-2>

8-2 Adding and Subtracting Rational Expressions

http://www.khanacademy.org/math/algebra2/rational-expressions/rational_expressions/v/adding-and-subtracting-rational-expressions-2

http://www.khanacademy.org/math/algebra2/rational-expressions/rational_expressions/v/subtracting-rational-expressions

http://www.khanacademy.org/math/algebra2/rational-expressions/rational_expressions/v/adding-and-subtracting-rational-expressions

8-3 Graphing Reciprocal Functions

<http://www.khanacademy.org/math/algebra2/rational-expressions/rational-function-graphing/v/another-rational-function-graph-example>

<http://www.khanacademy.org/math/algebra2/rational-expressions/rational-function-graphing/v/asymptotes-of-rational-functions>

8-4 Graphing Rational Functions

<http://www.khanacademy.org/math/algebra2/rational-expressions/rational-function-graphing/v/asymptotes-of-rational-functions>

<http://www.khanacademy.org/math/algebra2/rational-expressions/rational-function-graphing/v/a-third-example-of-graphing-a-rational-function>

<http://www.khanacademy.org/math/algebra2/rational-expressions/rational-function-graphing/v/finding-asymptotes-example>

8-5 Variations Functions

<http://www.khanacademy.org/math/algebra-basics/core-algebra-linear-equations-inequalities/core-algebra-direct-inverse-variation/v/direct-and-inverse-variation>

<http://www.khanacademy.org/math/algebra-basics/core-algebra-linear-equations-inequalities/core-algebra-direct-inverse-variation/v/recognizing-direct-and-inverse-variation>

8-6 Solving Rational Equations and Inequalities

<http://www.khanacademy.org/math/algebra2/rational-expressions/solving-rational-equations/v/rational-equations>

<http://www.khanacademy.org/math/algebra2/rational-expressions/solving-rational-equations/v/solving-rational-equations-2>

<http://www.khanacademy.org/math/algebra2/rational-expressions/solving-rational-equations/v/extraneous-solutions-to-rational-equations>

<http://www.khanacademy.org/math/algebra2/rational-expressions/solving-rational-equations/v/rational-inequalities>

<http://www.khanacademy.org/math/algebra2/rational-expressions/solving-rational-equations/v/rational-inequalities-2>

Chapter 9: Conic Sections

9-1 Midpoint and Distance Formulas

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/more-analytic-geometry/v/midpoint-formula>

<http://www.khanacademy.org/math/algebra/linear-equations-and-inequalitie/more-analytic-geometry/v/distance-formula>

9-2 Parabolas

http://www.khanacademy.org/math/algebra2/conics_precalc/conic_section_intro/v/introduction-to-conic-sections

http://www.khanacademy.org/math/algebra2/conics_precalc/parabolas_precalc/v/parabola-intuition-example-1

http://www.khanacademy.org/math/algebra2/conics_precalc/parabolas_precalc/v/parabola-focus-and-directrix-1

http://www.khanacademy.org/math/algebra2/conics_precalc/parabolas_precalc/v/focus-and-directrix-of-a-parabola-2

9-3 Circles

http://www.khanacademy.org/math/algebra2/conics_precalc/circles-tutorial-precac/v/radius-and-center-for-a-circle-equation-in-standard-form

http://www.khanacademy.org/math/algebra2/conics_precalc/circles-tutorial-precac/v/completing-the-square-to-write-equation-in-standard-form-of-a-circle

9-4 Ellipses

http://www.khanacademy.org/math/algebra2/conics_precalc/ellipses-precalf/v/conic-sections-intro-to-ellipses

http://www.khanacademy.org/math/algebra2/conics_precalc/ellipses-precalf/v/foci-of-an-ellipse

9-5 Hyperbolas

http://www.khanacademy.org/math/algebra2/conics_precalc/hyperbolas-precalf/v/conic-sections-intro-to-hyperbolas

http://www.khanacademy.org/math/algebra2/conics_precalc/hyperbolas-precalf/v/conic-sections-hyperbolas-2

http://www.khanacademy.org/math/algebra2/conics_precalc/hyperbolas-precalf/v/foci-of-a-hyperbola

9-6 Identifying Conic Sections

http://www.khanacademy.org/math/algebra2/conics_precalc/conics_precalc_eqs/v/identifying-conics-1

http://www.khanacademy.org/math/algebra2/conics_precalc/conics_precalc_eqs/v/identifying-conics-2

http://www.khanacademy.org/math/algebra2/conics_precalc/conics_precalc_eqs/v/conic-identification-3

9-7 Solving Linear-Nonlinear Systems

http://www.khanacademy.org/math/algebra2/systems_eq_ineq/non-linear-systems-tutorial/v/non-linear-systems-of-equations-2

http://www.khanacademy.org/math/algebra2/systems_eq_ineq/non-linear-systems-tutorial/v/systems-of-nonlinear-equations-2

http://www.khanacademy.org/math/algebra2/systems_eq_ineq/non-linear-systems-tutorial/v/systems-of-nonlinear-equations-3

Chapter 10: Sequences and Series

10-1 Sequences as Functions

http://www.khanacademy.org/math/precalculus/seq_induction/seq_and_series/v/arithmeti-sequences

http://www.khanacademy.org/math/precalculus/seq_induction/precalc-geometric-sequences/v/geometric-sequences-introduction

10-2 Arithmetic Sequences and Series

http://www.khanacademy.org/math/precalculus/seq_induction/seq_and_series/v/finding-the-100th-term-in-a-sequence

http://www.khanacademy.org/math/precalculus/seq_induction/seq_and_series/v/equations-of-sequence-patterns

http://www.khanacademy.org/math/precalculus/seq_induction/seq_and_series/v/series-as-sum-of-sequence

10-3 Geometric Sequences and Series

http://www.khanacademy.org/math/precalculus/seq_induction/precalc-geometric-sequences/v/geometric-sequences

http://www.khanacademy.org/math/precalculus/seq_induction/geometric-sequence-series/v/geometric-series-introduction

http://www.khanacademy.org/math/precalculus/seq_induction/geometric-sequence-series/v/sigma-notation-sum

10-4 Infinite Geometric Series

http://www.khanacademy.org/math/precalculus/seq_induction/infinite-geometric-series/v/infinite-geometric-series

http://www.khanacademy.org/math/precalculus/seq_induction/infinite-geometric-series/v/deriving-geometric-series-sum-formula

10-5 Recursion and Iteration

http://www.khanacademy.org/math/prec calculus/seq induction/seq and series/e/arithmet ic sequences_2

10-6 The Binomial Theorem

<http://www.khanacademy.org/math/algebra2/polynomial and rational/binomial theorem/v/binomial-theorem>

10-7 Proof by Mathematical Induction

<http://www.khanacademy.org/math/prec calculus/seq induction/proof by induction/v/proof-by-induction>

Chapter 11 Statistics and Probability

11-1 Designing a Study

<http://www.khanacademy.org/math/probability/statistical-studies/types-of-studies/v/types-statistical-studies>

<http://www.khanacademy.org/math/probability/statistical-studies/types-of-studies/v/correlation-and-causality>

11-2 Distributions of Data

<http://www.khanacademy.org/math/probability/descriptive-statistics/central tendency/v/statistics-intro-mean-median-and-mode>

<http://www.khanacademy.org/math/probability/descriptive-statistics/central tendency/v/mean-median-and-mode>

<http://www.khanacademy.org/math/probability/descriptive-statistics/central tendency/v/comparing-distribution-means>

http://www.khanacademy.org/math/probability/descriptive-statistics/central_tendency/v/statistics-sample-vs-population-mean

<http://www.khanacademy.org/math/probability/descriptive-statistics/box-and-whisker-plots/v/reading-box-and-whisker-plots>

11-3 Probability Distributions

http://www.khanacademy.org/math/probability/random-variables-topic/random_variables_prob_dist/v/discrete-probability-distribution

11-4 Binomial Distributions

http://www.khanacademy.org/math/probability/random-variables-topic/binomial_distribution/v/binomial-distribution

http://www.khanacademy.org/math/probability/random-variables-topic/binomial_distribution/v/visualizing-a-binomial-distribution

11-5 Normal Distribution

http://www.khanacademy.org/math/probability/statistics-inferential/normal_distribution/v/introduction-to-the-normal-distribution

http://www.khanacademy.org/math/probability/statistics-inferential/normal_distribution/v/normal-distribution-excel-exercise

11-6 Hypothesis Testing

<http://www.khanacademy.org/math/probability/probability-and-combinatorics-topic/decisions-with-probability/v/simple-hypothesis-testing>

<http://www.khanacademy.org/math/probability/probability-and-combinatorics-topic/decisions-with-probability/v/probability-decisions>

Chapter 12 Trigonometric Functions

12-1 Trig Functions in Right Triangles

http://www.khanacademy.org/math/trigonometry/basic-trigonometry/basic_trig_ratios/v/basic-trigonometry

http://www.khanacademy.org/math/trigonometry/basic-trigonometry/basic_trig_ratios/v/example-using-soh-cah-toa

<http://www.khanacademy.org/math/trigonometry/basic-trigonometry/reciprocal-trig-functions/v/example-the-six-trig-ratios>

12-2 Angles and Angle measures

http://www.khanacademy.org/math/trigonometry/unit-circle-trig-func/radians_tutorial/v/introduction-to-radians

http://www.khanacademy.org/math/trigonometry/unit-circle-trig-func/radians_tutorial/v/we-converting-degrees-to-radians

http://www.khanacademy.org/math/trigonometry/unit-circle-trig-func/radians_tutorial/v/we-converting-radians-to-degrees

12-3 Trig Functions of General Angles

<http://www.khanacademy.org/math/trigonometry/unit-circle-trig-func/trig-functions-special-angles/v/solving-triangle-unit-circle>

<http://www.khanacademy.org/math/trigonometry/unit-circle-trig-func/trig-functions-special-angles/v/trig-functions-special-angles>