

Name:
Honors Algebra 2

Date:
2016-2017 Syllabus

Chapter 5 - Quadratic Equations & Functions

Section 1 - Modeling Data with Quadratic Functions
Section 2 - Properties of Parabolas
Section 3 - Transforming Parabolas
Section 4 - Factoring Quadratic Expressions
Section 5 - Quadratic Equations
Section 6 - Complex Numbers
Section 7 - Completing the Square
Section 8 - The Quadratic Formula

Chapter 6 - Polynomials & Polynomial Functions

Section 1 - Polynomials Functions
Section 2 - Polynomial & Linear Factors
Section 4 - Solving Polynomial Equations
Section 7 - Permutations and Combinations

Chapter 7 - Radical Functions & Rational Exponents

Section 1 - Radical Expressions
Section 2 - Multiplying & Dividing Radical Expressions
Section 3 - Binomial Radical Expressions
Section 4 - Rational Exponents
Section 5 - Solving Square Roots & Other Radical Equations
Section 6 - Function Operations
Section 7 - Inverse Relations & Functions
Section 8 - Graphing Square Root & Other Radical Functions

Chapter 8 - Exponential & Logarithmic Functions

Section 1 - Exploring Exponential Models
Section 2 - Properties of Exponential Functions
Section 3 - Logarithmic Functions of Inverses
Section 4 - Properties of Logarithms
Section 5 - Exponential & Logarithmic Functions
Section 6 - Natural Logarithms

Chapter 9 - Quadratic Rational Functions

Section 4 - Rational Expressions
Section 5 - Adding & Subtracting Rational Expressions
Section 6 - Solving Rational Expressions
Section 2 - The Reciprocal Function Family
Section 3 - Rational Functions & Their Graphs

Chapter 10 - Quadratic Relations

Section 3 - Circles

Chapter 13 - Periodic Functions and Trigonometry

Section 1 - Exploring Periodic Data

Extra - Special Right Triangles

Section 2 - Angles and the Unit Circles

Section 3 - Radian Measure

Section 4 - The Sine Function

Section 5 - The Cosine Function

Section 6 - The Tangent Function

Section 7 - Translating Sine & Cosine Functions

Section 8 - Reciprocal Trigonometric Functions

Chapter 14 - Trigonometric Identities & Equations

Section 1 - Trigonometric Identities

Section 2 - Solving Trigonometric Equations using Inverses

Section 3 - Right Triangles & Trigonometric Ratios

Section 4 - Area & the Law of Sines

Section 5 - The Law of Cosines

Section 6 - Angle Identities

Pre-Calculus Concepts

1 - Interval Notation

2 - Odd, Even, and Neither Functions

3 - Piecewise Functions

***Keep this for the whole entire year for BONUS! *Subject to change**