

# Math 150 - Weekly Schedule

Textbook: Precalculus, 10th edition, by Ron Larson

## Week 0

- \* 1.1 Rectangular Coordinates
- \* 1.3 Linear Equations in Two Variables

## Week 1

- \* A.6 Linear Inequalities in One Variable
- \* 1.4 Functions
- \* 1.5 Analyzing Graphs of Functions

## Week 2

- \* 1.6 A Library of Parent Functions
- \* 1.7 Transformations of Functions
  
- \* A.2 Exponents and Radicals
- \* A.3 Polynomials and Factoring

## Week 3

- \* A.4 Rational Expressions
- \* 2.4 Complex Numbers
- \* A.5 Solving equations

## Week 4

- \* 1.8 Combinations of Functions
- \* EXAM 1
- \* 2.1 Quadratic Functions and Models

## Week 5

- \* 2.2 Polynomial Functions of Higher Degree
- \* 2.3 Polynomial and Synthetic Division
- \* 2.6 Rational Functions

## Week 6

- \* 2.7 Nonlinear Inequalities
- \* 1.9 Inverse Functions
- \* 3.1 Exponential Functions and Their Graphs
- \* 3.2 Logarithmic Functions and Their Graphs

## Week 7

- \* 3.3 Properties of Logarithms
- \* 3.4 Exponential and Logarithmic Equations
- \* 3.5 Exponential and Logarithmic Models

## Week 8

- \* 4.1 Radian and Degree Measure
- \* Exam 2
- \* 4.2 Trig Functions: the Unit Circle
- \*

## Week 9

- 4.3 Right Triangle Trigonometry
- \* 4.4 Trig Functions of Any Angle
- \* 4.5 Graphs of Sine and Cosine

## Week 10

- \* 4.6 Graph of Other Trig Functions
- \* 4.7 Inverse Trig Functions

## Week 11

- \* 5.2 Verifying Trigonometric Identities
- \* 5.3 Solving Trigonometric Equations
- \* 5.4 Sum and Difference Formulas
- \* 5.5 Multiple-Angle and Product-to-Sum Formulas

Week 12

- \* 6.1 Law of Sines
- \* EXAM 3
- \* 6.2 Law of Cosines

Week 13

- \* 6.3 Vectors in the Plane
- \* 6.4 Vectors and Dot Products
- \* 1.4 Difference Quotient

Week 14

- \* 7.1 Linear and Nonlinear Systems of Equations
- \* 7.2 Two-Variable Linear Systems
- \* Review for the Final Exam

Week 15

- \* Final Exam