Math 213 Checklist

The following skills are recommended for Math 213, Analytic Geometry and Calculus III. Choose the following textbook from the dropdown menu:

Dugopolski: Trigonometry, 2e

Once you have chosen the textbook, click on the words "study plan". Expand the Chapter + to see the individual sections. For each section below, start by watching the section video then proceed to exercises. You can also read the section of the textbook. If you need help with an exercise, you can click on the menu to the right of the exercise for help, to read the related section of the textbook, or to see additional examples.

☐ Chapter 0 - Algebraic Prerequisites

☐ Chapter 1 - Angles and the Trigonometric Functions

☐ Chapter 2 - Graphs of the Trigonometric Functions

☐ Chapter 3 - Trigonometric Identities

☐ Chapter 4 – Solving Conditional Trigonometric Equations

☐ Chapter 5 – Applications of Trigonometry

☐ Chapter 6 – Complex Numbers, Polar Equations and Parametric Equations

Textbook: **Thomas: Calculus Early Transcendentals Media Upgrade, 11e**
To open a new textbook: Click "My Courses", then "Enroll in a new course"

☐ Chapter 3 – Differentiation
      Sec 3.2 Differentiation Rules
      Sec 3.4 Derivative of Trigonometric Functions

☐ Chapter 5 – Integration
      Sec 5.4 Fundamental Theorem of Calculus (Section Video and Problems)

☐ Chapter 8 – Techniques of Integration
      Sec 8.1 Basic Integration (no video available, but plenty of practice problems)

☐ Chapter 12 – Vectors and Geometry on Space
      Sec 12.1 Three Dimensional Coordinate System (Section Video and Problems)

For more problems also see the following:
Textbook: **Varberg: Calculus Early Transcendentals**
To open a new textbook: Click "My Courses", then "Enroll in a new course"

☐ Chapter 5 – Integration
      Sec 5.3 Fundamental Theorem of Calculus

☐ Chapter 11 –Geometry in Space
      Sec 11.1 Cartesian Coordinates in Three-Space