Chapter 2 Study Guide

1. **Take Home Part (12 points)**
   - Be sure your explanations are clear and written in complete sentences.
   - I recommend comparing answers with other students before you turn them in.

2. **No Calculator Part (36 points)**

   - Be able to evaluate limits by the following methods:
     - Direct Substitution
     - Rationalizing the numerator
     - Algebra techniques: factoring, multiplying the numerator/denominator by LCD
     - Recognizing Special Limits
     - Recognizing infinite limts

3. **Calculator Allowed Part (52 points)**

   - Evaluate limits by sketching and analyzing a graph
   - Discuss the continuity of a given function. If discontinuity exists be able to describe the type of discontinuity.
   - Find the vertical asymptotes of a given function.
   - Find left/right sided limits analytically and graphically.

4. **Things you will need to be able to do with your calculator for the test. (TI83/84 or TI89)**

   - Accurately graph a function on the coordinate plane.
   - Complete a t-table using specific x-values.

5. **Are notes allowed on the Test?**

   - You may use the trigonometry review sheet I handed out the first day. (Tan color)
   - You may use the algebra review sheet I handed out the first day. (Tan color)
   - No other notes will be allowed.