Questions on Test 3

The Unit 3 Exam will consist of five questions. It will be very similar to the Fall 2005 exam.

1. Calculate Definite Integrals (via FTC and Substitution)

2. Numerical Approximation:
   - Riemann Sum
   - Trapezoidal Rule
   - Simpson’s Rule

3. Areas/Volumes

4. Other Cumulative Sums (Average Value, Probability, Work)

5. Sketch the Graph of \( F(x) = \int_a^x f(t) \, dt \).