Test 3 is cumulative, but will focus primarily on sections 6.1–6.5 and 7.1–7.3

1. Antidifferentiation
   - what an antiderivative is
   - how to find antiderivatives for basic functions (polynomials, powers, exponential functions with simple exponents, etc.)
   - how to check if a proposed antiderivative is correct (like problem 6.1.39)

2. Definite Integrals
   - Riemann sums and areas
   - Fundamental Theorem of Calculus

3. Applications of integration
   - area
   - volume
   - total change [integrals of rates of change]
   - average value
   - consumers’ surplus
   - future value of income stream

4. Multivariate functions
   - notation
   - graphs (surface plots and contour plots)
   - level curves
   - meaning of partial derivatives
   - computing partial derivatives
   - using partial derivatives to find extreme values