REVIEW TEST 2
Chapter 4, Section 8.2, and Chapter 5 (5.1 – 5.4)

To prepare for the test, you should:

- study **all quizzes** and all **examples done in class**, as well as your **homework** from the listed sections.
- know how to prove formally the following theorems or properties:
    1) Functions with zero derivatives are constant.
    2) Functions with the same derivative differ by a constant.
- study Handout 4.1 & 4.2 – all exercises
- study Handout 4.5 – exercises # 1, 2, 3, 6, 7, 9, 10
- study Handout Review Chapter 4
- study Handout 5.1 – all exercises
- study Handout 5.3 – all exercises
- know the following definitions and properties:
    - definition of the average value of a function
    - properties of definite integrals
    - definition of the definite integral + drawing
    - definition of a critical point
    - The Closed Interval Method
    - The Second Derivative Test
    - Definition of an inflection point
    - The Increasing and Decreasing Test
    - The Evaluation Theorem (The Fundamental Theorem of Calculus Part II)
    - The Fundamental Theorem of Calculus Part I

Note: Please check website for Handouts and their solutions.