**Math 3A Test 4 Study Guide**

1. Optimization for demand problems (Sec 4.7) 

2. Newton’s Method (Sec 4.8)

 Userepeatedly until you get the same number (within your desired accuracy)twice in a row.

3. Antiderivatives (Sec 4.9)

 is an antiderivative ofif

  

  

  

  

  

  

  

4. Position Function/Velocity/Acceleration (Sec 4.9)

 

5. Estimating Areas Using Rectangles (Sec 5.1)

  

6. The Definite Integral and Area (Sec 5.2)

 

 

 

7. The Fundamental Theorem of Calculus Part 2 (Sec 5.3, 5.4)

 where F is an antiderivative of f.

8. The Fundamental Theorem of Calculus Part 1 (Sec 5.3)

 

\*On [a, b] and if f is continuous on [a, b]