

Mathematics Teaching Seminar

Speaker: Richard Gejji

Title: Area and the Definite Integral

Date: Tuesday, April 17, 2007

Time: 5:10 – 5:35 pm

Room: 231 Hayes - Healy Hall

Moderator: Bei Hu

Abstract: Since there are no other questions on the homework and the material we discussed last class, we are going to begin a new topic in Math 10560.

Last time we talked about antiderivatives and how we can use the derivative to calculate some of them. Today we will take a look at a new topic. I will start the lecture on how to estimate the area under a curve $y=f(x)$ by approximating it with n rectangles. I will argue that increasing the number of rectangles will increase our accuracy, and ultimately we will discuss what happens when you take the limit as the number of rectangles goes to infinity.