

MthU242  
Northeastern University  
Quiz #3  
20 Minutes

Calculus II  
Professor Gilmore  
Jan. 25, 2007

Name: \_\_\_\_\_.

Show All Your Work

1. a. Calculate the Trapezoidal approximation to the integral  $\int_1^3 x^4 dx$  with  $n = 4$ .

b. Use the formula from class to give an upper bound for your error.

2. Show whether the following integral converges or diverges. If it converges, calculate the number.

a.  $\int_0^2 \frac{dx}{\sqrt[3]{x-1}}$

Name: \_\_\_\_\_.