

MthU242
Northeastern University
Quiz #3
20 Minutes

Calculus II
Professor Gilmore
Jan. 25, 2007

Name: _____.

Show All Your Work

1. a. Calculate Simpson's approximation to the integral $\int_0^3 \sin(x) dx$ 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. $\int_2^{\infty} \frac{dx}{\sqrt[5]{(x-1)}}$

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