

MthU242
Northeastern University
Quiz #4
20 Minutes

Calculus II
Professor Gilmore
Feb. 10, 2005

Name: _____.

Show All Your Work

1. Use Simpson's rule with six intervals to approximate the following integral:

$$\int_0^1 \frac{\sin x}{x} dx$$

2. The region bounded by the curve $y = \sqrt{\cos x}$, from $x = 0$ to $x = \pi/2$, and the x -axis is rotated about the x -axis. Use the method of slicing to find the volume of the resulting solid.

(OVER)

NAME:_____.