

MthU242
Northeastern University
Quiz #1
20 Minutes

Calculus II
Professor Gilmore
Jan. 13, 2005

Name: _____.

Show All Your Work

1. Find the area between the graphs of the two functions

$$y = 4 - x^2 \text{ and } y = x^2 + 2.$$

2. Calculate the following integrals:

a. $\int_0^{\pi/2} x^2 \cdot \cos x \cdot dx$

b. $\int \arctan(2x) dx =$