

MthU242  
Northeastern University  
Quiz #1  
20 Minutes

Calculus II  
Professor Gilmore  
Jan. 10, 2008

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

Show All Your Work

1. Calculate the following indefinite integrals:

a. 
$$\int \frac{dx}{\left(\frac{5}{7}x - 13\right)^3}$$

b. 
$$\int 3x \cdot \sin((7x^2 - 7)) dx$$

2. Calculate the following integrals:

a. 
$$\int x \cdot \sin(7x) dx$$

b. 
$$\int \tan^{-1} x dx$$