

MthU242  
Northeastern University  
Quiz #6  
20 Minutes

Calculus II  
Professor Gilmore  
Mar. 17, 2005

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

**Show All Your Work**

1. Estimate the error, using the formula from the text, of the following: We use the fourth degree Taylor polynomial for the function  $f(x) = \ln(1 + x)$  expanded about  $a = 0$  to estimate  $\ln(1.2)$ .

2. Construct the fourth degree Taylor polynomial for the function  $f(x) = \cos(x)$  near  $a = \frac{\pi}{6}$ .

NAME: \_\_\_\_\_.