

NAME:

SECTION: (circle one) 11:00-11:55    12:05-1:00

Math 105 - Quiz 9 - November 17, 2005

Instructions: Show all of your work and circle your final answers. Calculators are allowed, but notes and books are not.

1. (10 pts.) Find the Taylor approximation of degree 3 of  $f(x) = \sin x$  at  $x = 0$ .

2. (10 pts.) Find the quadratic Taylor approximation of  $g(x) = \sqrt{x}$  at  $x = 4$ . Use this to get an approximate value of  $\sqrt{5}$ .