

GEORGIA TECH

SCHOOL OF MATHEMATICS

MATH 1512

HONOR CALCULUS II

Quiz # 1

August 25th, 2004

First Name : -----

Name : -----

1. Give the Taylor expansion *up to order n* of

$$\frac{1}{1-x} =$$

2. Give the Taylor series for

$$e^{-x} =$$

3. If $p(x) = 1 - x^2/2 + x^4/24$ gives the values of

$$p^{(2)}(0) =$$

$$p^{(4)}(0) =$$

4. If $g(x) = x^5 - x^6$ is $x = 0$

a maximum? a minimum? an inflection point?