

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**  
**DEPARTMENT OF MATHEMATICS AND STATISTICS**  
**MATH 101 - QUIZ 4**

Name:

Student ID #:

**Question 1.** Use linear approximation to estimate the number  $e^{-0.015}$ .

**Question 2.** The radius of a circular disk is given as 24 cm with an error in measurement of 0.2 cm. Use differentials to estimate the error in the calculated area of the disk.

**Your Solution.**