

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 101 - Quiz 6

Name:

Student ID #:

Question 1. Find the absolute maximum and minimum values of $f(x) = e^{-x} - e^{-2x}$ on the interval $[0, 1]$.

Question 2. Find all the c 's that satisfy the conclusion of the Mean Value Theorem for $f(x) = \frac{x}{x+2}$ on the interval $[1, 4]$.

Question 3. Find the intervals on which $f(x) = \sin x + \cos x$ is increasing or decreasing on the interval $[0, \pi]$.