

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 260 (111) - Quiz 1

Name: _____ ID: _____ Serial No.: _____

1. Find the general solution of

$$\sec^2(e^y)dy - \left(e^{-y} \frac{1}{1-x^2} \right) dx = 0.$$

2. A roast initially at 100° F is placed in 400° F oven at 3 : 00 PM, after 30 minutes it is found that the temperature $T(t)$ of the roast is 200° F, when the roast will be 300° F?