

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MAT 260 - 5
QUIZ 1

Name:

Student ID #:

If the second digit of your student Id number is odd solve Question 1, otherwise solve Question 2. To receive full credit, all work must be shown.

Question 1. Find the explicit particular solution of the initial value problem

$$\tan(x) \frac{dy}{dx} = y, \quad y\left(\frac{\pi}{2}\right) = \frac{\pi}{2}$$

Question 2. Find the explicit particular solution of the initial value problem

$$\frac{dy}{dx} = 6e^{2x-y}, \quad y(0) = 0$$

Your Solution.