

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 102 - QUIZ 4

Name:

Student ID #:

Question 1. Find the area of the surface generated by revolving the curve $y = \frac{x^3}{6} + \frac{1}{2x}$, $\frac{1}{2} \leq x \leq 1$ about the x-axis.

Question 2. Solve the initial value problem $\frac{dy}{dx} = e^x \sin(e^x - e)$, $y(1) = 0$

Your Solution.