KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS DEPARTMENT OF MATHEMATICS AND STATISTICS MATH 102 - QUIZ 2

Name:

Student ID #:

Question 1. Evaluate the following integrals using substitution:

$$\int \frac{e^x}{e^{2x} + 1} \mathrm{d}x$$

$$\int_0^2 \frac{x}{\sqrt{2x+1}} \mathrm{d}x$$

(3)
$$\int \tan(x) \ln(\cos(x)) dx$$

Question 2. Find the are between $y = \cos(x)$ and $y = \sin(x)$ from x = 0 to $x = \pi$.

Your Solution.