

King Fahd Univ. of Petroleum and Minerals
Faculty of Sciences
Department of Mathematical Sciences

QUIZ No. 3
(MATH. 102-051 Sections 4)

Name:

ID:

Prob. 1

Evaluate

$$\int \frac{xe^x}{(x+1)^2} dx$$

Prob.2

Find

$$\int_1^2 x^2 \sec^{-1} x dx$$

Prob. 3

Find the arc length of

$$\begin{cases} x = a \cos t \\ y = b \sin t \end{cases} \\ 0 \leq t \leq 2\pi.$$