

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**  
**DEPARTMENT OF MATHEMATICS AND STATISTICS**  
**MATH 102 - QUIZ 3**

Name:

Student ID #:

**Question.** Evaluate the following integrals:

(1)

$$\int \frac{1}{1 - \sin(x)} dx,$$

(2)

$$\int \sqrt{x}e^{\sqrt{x}} dx,$$

(3)

$$\int \frac{\sin^4(x)}{\sin^3(2x)} dx,$$

(4)

$$\int \frac{1}{\sqrt{x^2 - 9}} dx.$$

**Your Solution.**