

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**  
**DEPARTMENT OF MATHEMATICS AND STATISTICS**  
**MATH 102 - QUIZ 5**

Name:

Student ID #:

**Question 1.** Evaluate the integral  $\int \sqrt{x} \cos(\sqrt{x}) dx$ .

**Question 2.** Evaluate the integral  $\int e^{-\theta} \sinh(2\theta) \operatorname{sech}(\theta) d\theta$

**Your Solution.**