

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 201
QUIZ 5

Name:

Student ID #:

Question1. Change the order of integration and evaluate the integral

$$\int_0^2 \int_{\sqrt{y/2}}^1 ye^{x^5} dx dy$$

Question2. Evaluate the integral

$$\iint_D \sqrt{4 - x^2 - y^2} dA,$$

where $D = \{(x, y) | x^2 + y^2 \leq 4, x \geq 0\}$.

Your Solution.