

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS & STATISTICS
MATH 201-2
Quiz # 6
Dec 26, 2011

NAME:

ID#:

SHOW ALL YOUR WORK

1. **(5points)** Calculate $\int \int_R e^{-x^2-y^2} dA$, where $R = \{(x, y) : x^2 + y^2 \leq 4, x \geq 0\}$.

2. **(5points)** Find $\int \int \int_E x dV$ where E is bounded by the paraboloid $x = 4y^2 + 4z^2$ and the plane $x = 4$.