

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS & STATISTICS
MATH 201-02
Quiz # 5
May 1, 2013

NAME:

ID#:

SHOW ALL YOUR WORK

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

2. **(5points)** Integrate $\int \int_R x dA$ where R is the region inside the triangle with vertices $(0, 0)$, $(1, 1)$, $(2, 0)$.