

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**

**DEPARTMENT OF MATHEMATICS & STATISTICS**

MATH 201-11

Quiz # 5

May 7, 2015

NAME:	ID#:
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**SHOW ALL YOUR WORK**

1. (5points) Evaluate the double integral  $\int \int_R y \sin(x + y) dA$ ,  $R: -\pi \leq x \leq 0, 0 \leq y \leq \pi$ .

2. (5points) Evaluate the double integral  $\int_0^2 \int_0^{4-x^2} \frac{xe^{2y}}{4-y} dy dx$ .