

Name:
March 12, 2015
MAC 2313.3118
Cyr

Quiz 8

You must show all work to receive full credit!!

Problem 1. (4 pts) Evaluate the iterated integral $\int_2^6 \int_1^4 x^2 dx dy$.

Problem 2. (6 pts) Use the method of Lagrange multipliers to find the minimum and maximum values of the function $f(x, y) = xy$ subject to the constraint $4x^2 + 9y^2 = 32$.