Name: March 10, 2016 MAC 2313.9256 Cyr

Quiz 8 You must show all work to receive full credit!!

Problem 1. (4 pts) Evaluate the iterated integral $\int_{-2}^{1} \int_{0}^{\pi/2} x^{2} \cos(y) dy dx$.

Problem 2. (6 pts) Use the method of Lagrange multipliers to find the minimum and maximum values of the function f(x, y) = 4x + 6y subject to the constraint $x^2 + y^2 = 13$.