

Name:
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MAC 2313.8443
Cyr

Quiz 8

You must show all work to receive full credit!!

Problem 1. (4 pts) Evaluate the iterated integral $\int_{-1}^2 \int_0^{\pi} x \sin(xy) dy dx$.

Problem 2. (6 pts) Use the method of Lagrange multipliers to find the minimum and maximum values of the function $f(x, y) = 6x + 8y$ subject to the constraint $x^2 + y^2 = 25$.