

Name:  
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MAC 2313.3122  
Cyr

Quiz 8

You must show all work to receive full credit!!

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

**Problem 2.** (6 pts) Use the method of Lagrange multipliers to find the minimum and maximum values of the function  $f(x, y) = 2x + 4y$  subject to the constraint  $x^2 + y^2 = 5$ .