Math 210, Groves, Quiz 6 Thursday, October 20, 2011, 12pm.

Name: _			

Please write clearly and show all of your work.

1. Use the method of Lagrange multipliers to find the extreme values of the function f(x,y)=x+2y on the ellipse $3x^2+4y^2=3$.

2. Evaluate

$$\int_0^1 \int_2^4 x^2 y^3 dx dy$$