Math 225: Calculus III
Quiz 5 October 9, 2003

Name:
Section:

1. Find the local maximum and minimum values and saddle point(s) of the function $f(x, y)=x^{3} y+y^{2}-12 x y$.
2. Use Lagrange multipliers to find the maximum and minimum values of the function $f(x, y)=x+2 y$ subject to the constraint $x^{2}+y^{2}=1$.
