Math 225: Calculus III
Quiz 5 Feb. 22/24, 1994

Name:
Section:

1. Find the equation of the plane tangent to the graph of $f(x, y)=x^{3} y-y^{2}$ at the point $(1,1,0)$.
2. Find the local maxima, local minima, and saddle points of the graph of the function $f(x, y)=$ $\frac{1}{2} x^{2} y^{2}-x y^{2}-2 x^{2}+4 x+1$.
