## Math 225: Calculus III

Quiz 5 Feb. 25/27, 1997

Name:
Section:

1. Find the equation of the plane tangent to the surface $x^{3} y-z^{3} x=2$ at the point $(1,3,1)$.
2. Show that the points $(1,1)$ and $(-1,-1)$ are critical points of the function $f(x, y)=2 y^{3}-3 y+2 x^{3}-3 x^{2} y$ and determine whether these points are local maxima, local minima, or saddle points.
