Math 225: Calculus III
Name:
Quiz 5 Oct. 6/8, 1992
Section:

1. Compute the slope of the line tangent to the curve given by the intersection of the plane $y=2$ and the surface $z=x^{3} y-y^{2} x$ at the point $(2,2,8)$.
2. Let $f(x, y)=y^{x},(x, y>0)$. Compute $f_{x y}$. (Hint: rewrite $f(x, y)$ using the exponential and logarithm functions).
