Math 225: Calculus III
Quiz 4 Feb 15/17, 1994

Name:
Section:

1. Suppose that $z(x, y)$ is a function of $x$ and $y$, and that $x=\cos (u v)$ and $y=\sin (u / v)$. If $z_{x}(-1,0)=3$ and $z_{y}(-1,0)=1$, find $\frac{\partial z}{\partial v}$ when $u=\pi$ and $v=1$.
2. Find the slope of the line tangent to curve defined by the intersection of $z=x^{3} y-y^{2}$ and the plane $x=3$ at the point $(3,2,50)$.
