Math 225: Calculus III
Quiz 9 Nov. 17/19, 1992

Name:
Section:

1. Compute the volume of the portion of the solid sphere $x^{2}+y^{2}+z^{2} \leq 2$ that lies above the plane $z=1$.
2. Compute the Jacobian $\frac{\partial(x, y)}{\partial(u, v)}$ of the change of variables

$$
x=e^{-u} \cos (v), \quad y=e^{-u} \sin (v)
$$

