

Math 225: Calculus III
Quiz 8 *November 6, 2003*

Name: _____
Section: _____

1. Find the volume of the solid bounded by the cylinder, $x^2 + y^2 = 1$, and the planes $z = 0$ and $z = x + 1$.

2. Calculate the integral $\iiint_E (x^2 + y^2 + z^2)^{\frac{3}{2}} dV$ where E is the ball $x^2 + y^2 + z^2 \leq 4$.