

**Math 225: Calculus III**  
**Quiz 7** November 8, 2001

Name: \_\_\_\_\_  
Section: \_\_\_\_\_

1. Let  $E$  be the solid region bounded by the planes  $x = 1$ ,  $z = 0$ ,  $z = x$ , and the surface  $x = 2 - y^2$ . Calculate  $\iiint_E yz \, dV$ .

2. Rewrite the integral  $\int_0^2 \int_0^{\sqrt{4-y^2}} \int_0^{2-\sqrt{x^2+y^2}} x \, dz \, dx \, dy$  in cylindrical coordinates. *Do not evaluate the integral.*