

**“QUIZ” for Oct. 30, 2006**

**NAME:** (print!) \_\_\_\_\_ **Section:** \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

1. Evaluate the triple integral

$$\int \int \int_E x \, dV \quad ,$$

where

$$E = \{(x, y, z) \mid 0 \leq x \leq 1, 0 \leq y \leq x, 0 \leq z \leq x\} \quad .$$

2: Set-up as an iterated integral, **but do not evaluate**, the triple integral

$$\int \int \int_E (x + y) \, dV \quad ,$$

where  $E$  is bounded by the surface  $z = 1 - x^2$  and the planes  $z = 0$ ,  $y = 1$  and  $y = -1$ .