

Quiz 8

Your Name (please PRINT): _____

Student ID Number: _____

1. Evaluate the triple integral $\iiint_E 2y \, dV$, where $E = \{(x, y, z) \mid 0 \leq y \leq 1, y \leq x \leq 1, 0 \leq z \leq xy\}$

2. Evaluate $\iiint_E x^2 \, dV$, where E is the solid that lies within the cylinder $x^2 + y^2 = 1$, above the plane $z = 0$, and below the cone $z^2 = 4x^2 + 4y^2$.