

Math 301 Quiz #3a

Name:..... **ID:**.....

Exercise # 1: Use the divergence theorem to evaluate $\int \int_S F \bullet nds$ where $F = xi + zj + yk$ and S is the boundary of the solid defined by $\{(x, y, z) : 0 \leq z \leq x, 0 \leq x \leq 1, 0 \leq y \leq 1\}$.