

**Math 224**

**Quiz 18**

**Name:** \_\_\_\_\_

**April 6, 2004**

**Show all work for credit.**

1. Evaluate the triple integral:

$$\iiint_E 2x \, dV, \text{ where } E = \{(x, y, z) \mid 0 \leq y \leq 2, 0 \leq x \leq \sqrt{4 - y^2}, 0 \leq z \leq y\}$$