QUIZ 9 - MATH 251 Your NAME:

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Evaluate the triple integral $\iiint_E 2xdV$, where $E = \{(x, y, z) : 0 \le y \le 2, 0 \le x \le \sqrt{4-y^2}, 0 \le z \le y\}.$

2. Evaluate the triple integral $\iiint_E x dV$, where E is bounded by the paraboloid $x = 4y^2 + 4z^2$ and the plane x = 4.

