

**Quiz 11;** Wednesday, April 13  
**MATH 53** with Professor Stankova  
**Section 109;** 11-12  
**GSI:** Eric Hallman

**Student name:**

You have 10 minutes to complete the quiz. Calculators are not permitted, and remember to show your calculations and explain your reasoning in order to receive full credit.

1. Evaluate  $\iiint_E x e^{x^2+y^2+z^2} dV$  where  $E$  is the portion of the unit ball  $x^2 + y^2 + z^2 \leq 1$  lying in the first octant ( $x, y, z \geq 0$ ).