MATH 201.9
Quiz 6-Chapters 15.7-8

Name: ___________________________  ID number: ___________________________

Calculate the value of the triple integral

\[ \int \int \int_E z^3 \sqrt{x^2 + y^2 + z^2} \, dV, \]

where \( E \) is the solid hemisphere that lies above the \( xy \)-plane and has center the origin and radius 1.