

“QUIZ” for Nov.2, 2006

NAME: (print!) _____ **Section:** _____

E-MAIL ADDRESS: (print!) _____

1. Evaluate

$$\int \int \int_E (x^2 + y^2 + z^2) dV \quad ,$$

where E is bounded by the xy -plane and the hemispheres $z = \sqrt{1 - x^2 - y^2}$ and $z = \sqrt{4 - x^2 - y^2}$.