Math 324 B, Fall 2018, Quiz 2

Name: _____

1. Evaluate the integral

$$\iiint_E (x^2 + y^2) \, dV,$$

where E is the region between the spheres $x^2 + y^2 + z^2 = 1$ and $x^2 + y^2 + z^2 = 4$, and inside the octant

$$x \leq 0, y \geq 0, z \leq 0.$$