Triple Integrals
0.1. Setting up triple integrals. Suppose the density of the following solid is given by $\rho(x, y, z)=x+y$.


Set up an integral which computes the mass of the object.
0.2. Cylindrical Coordinates. Compute the integral of the function $f(x, y, z)=z+x^{2}+y^{2}$ over the region constrained by $0 \leq z \leq 1-\left(x^{2}+y^{2}\right)$. Use cylindrical coordinates.

