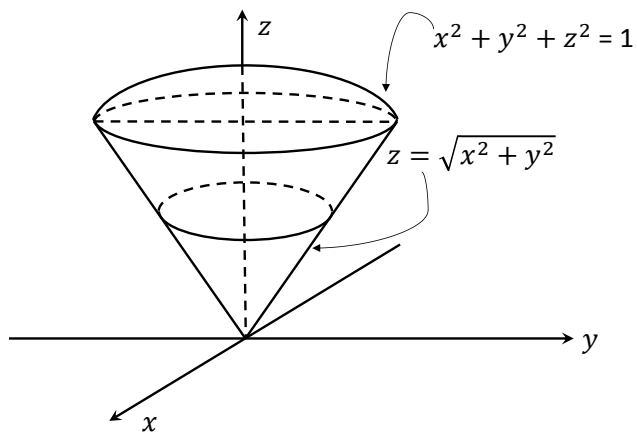


NAME: _____

Math 2551 (L1-L3)
3/30/2016

Quiz 8

1. Using *cylindrical coordinates*, set up the triple integral to compute the volume of the solid enclosed by the sphere $x^2 + y^2 + z^2 = 1$ and the cone $z = \sqrt{x^2 + y^2}$ (pictured below). You do not have to compute the value of the integral.



2. Use *spherical coordinates* to set up the triple integral to compute the volume of the smaller region cut from the solid sphere $\rho \leq 14$ by the plane $z = 7$. You do not have to compute the value of the integral.