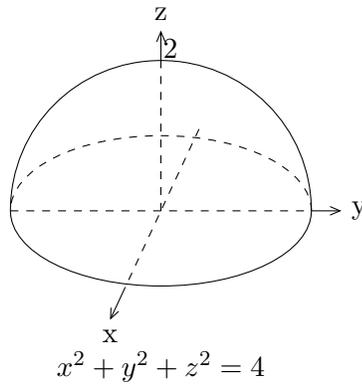


## Problems: Triple Integrals

1. Set up, but do not evaluate, an integral to find the volume of the region below the plane  $z = y$  and above the paraboloid  $z = x^2 + y^2$ .
2. Use cylindrical coordinates to find the center of mass of the hemisphere shown. (Assume  $\delta = 1$ .)



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