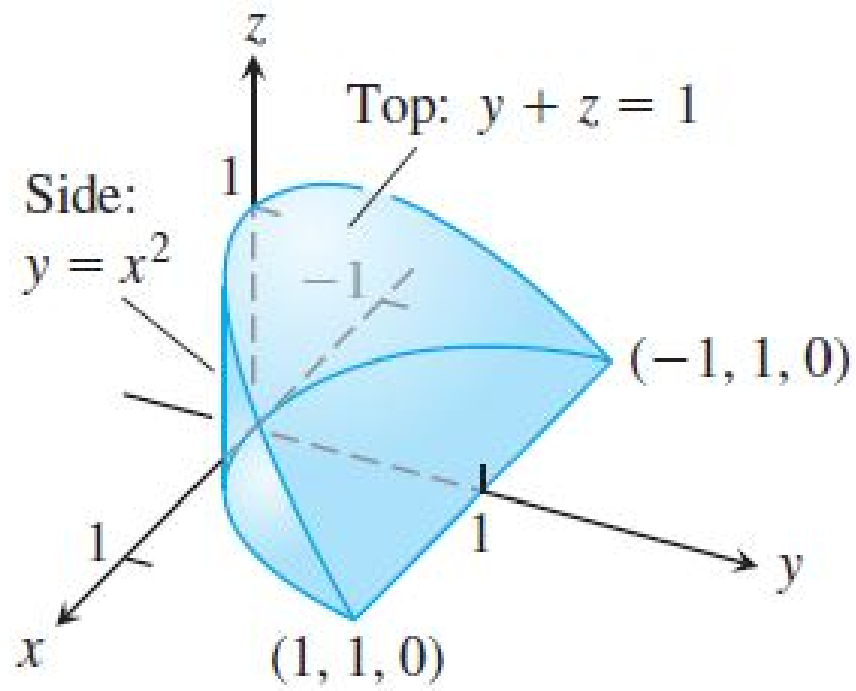


Triple Integral Problems

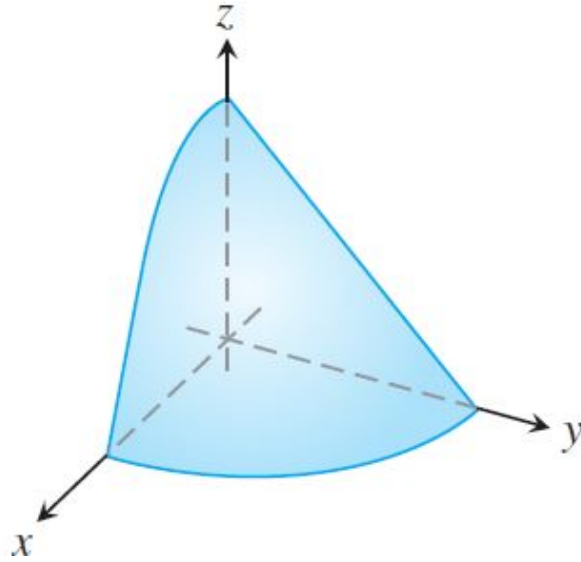
Rectangular Coordinates

Set up the triple integral with limits

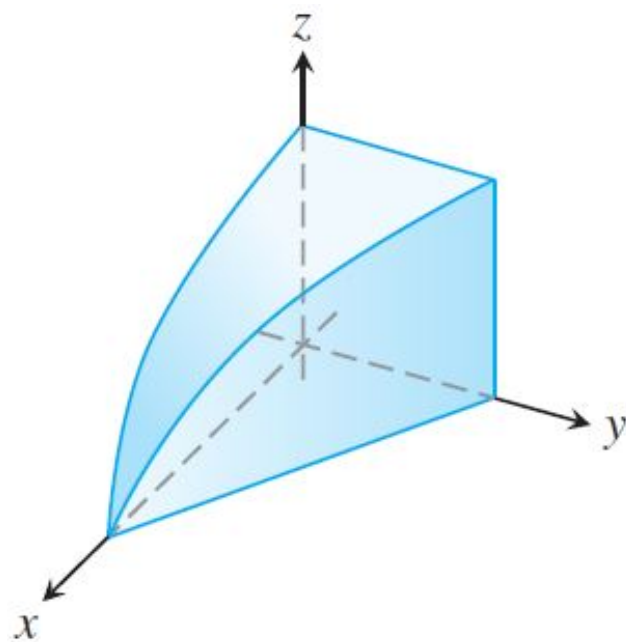


$$z = 4 - x^2 - y$$

Express the volume as a triple integral



Top is $z = \cos \frac{\pi x}{2}$. Right side is $y = 1 - x$



Top is $y + z = 2$. Right side is $x = 4 - y^2$

