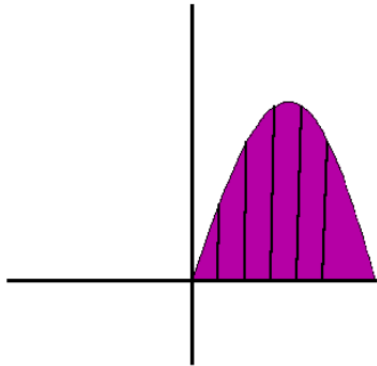
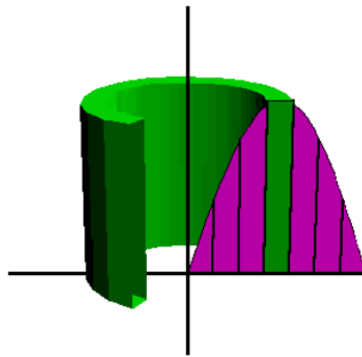


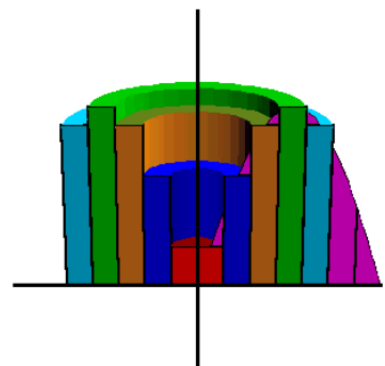
Generating a Partition



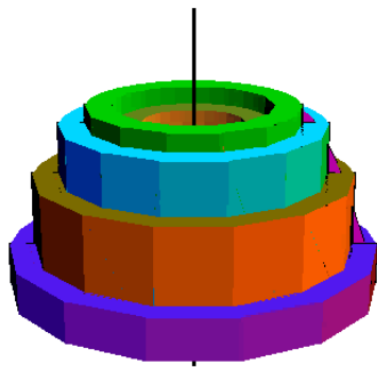
Generation of Typical Shell



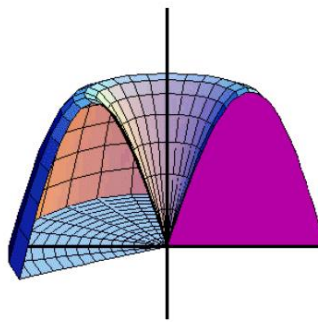
Drawing Half Shell 5



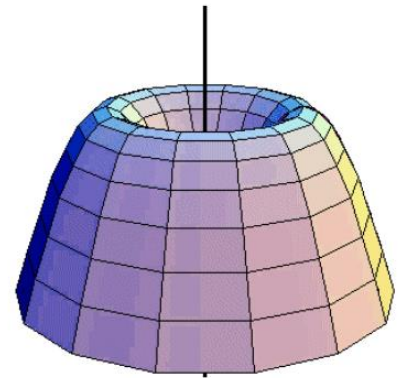
Drawing Shell 7



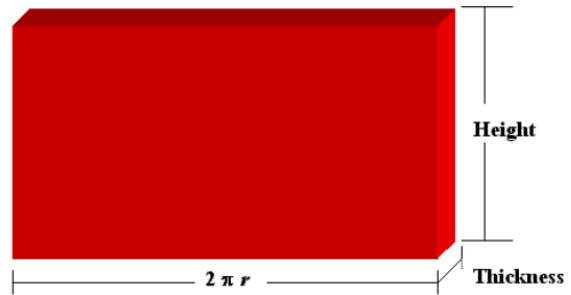
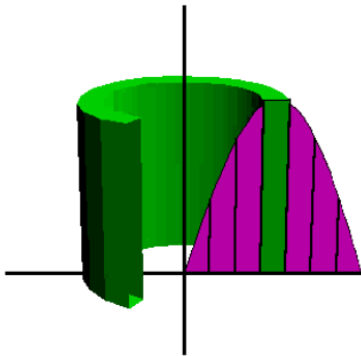
Generation of Surface



Generation of Surface

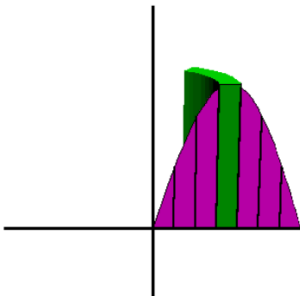


Generation of Typical Shell



Volume of shell $\approx 2\pi r \times Thickness$

Generation of Typical Shell



Example: Shell Method vs Disc/Washer Method

Find the volume of the solid formed by revolving the region bounded by the graphs of $y = x^2 + 1$, $y = 0$, $x = 0$, and $x = 1$ about the y -axis, as shown in Figure 7.21.

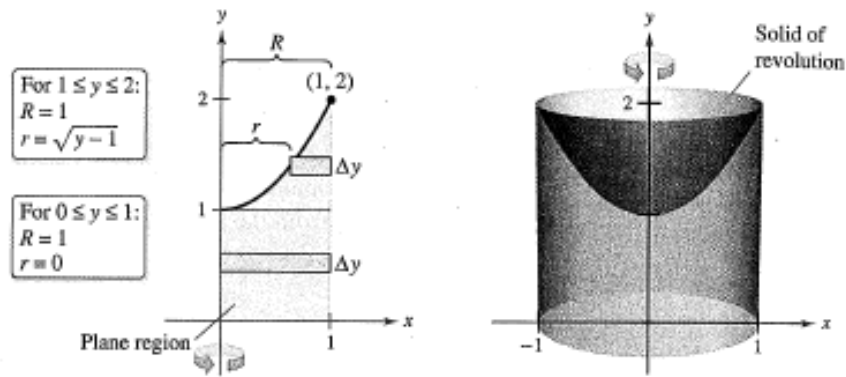


Figure 7.21