Practice Problems 11 - Math 141, Frank Thorne (thornef@mailbox.sc.edu)

Important. For all volume problems, please sketch the solid whose volume you are computing, and draw and label a typical slice.

1. Find the volume of a sphere with radius r.
2. Find the volume of a hollowed out sphere of radius r, with a smaller sphere of radius s removed from the center. (Hint: there is an easy way!)
3. Find the volume of a circular cone of radius r and height h.
4. Find the area of a square pyramid with base length b and height b.
5. Thomas, 5.6, 8-13, 65-70, 87-88.
6. Thomas, 6.1, 21-26.