## Homework 13 - Math 141, Frank Thorne (thornef@mailbox.sc.edu)

Due Friday, December 7
(a) Find the volume of a sphere with radius $r$.
(b) 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!)
(c) Find the volume of a circular cone of radius $r$ and height $h$.
(d) Find the area of a square pyramid with base length $b$ and height $b$.

Important. For all volume problems, please sketch the solid whose volume you are computing, and draw and label a typical slice.
(e) Stewart, Ch. 6.2, 1-10 (even).
(f) Stewart, Ch. 6.2, 41, 42, 51, 68, 70.

Additional problems:
(a) Stewart, Ch. 6.2, 1-10 (odd).

Bonus: 6.2, 51, 66 (1 point each).

## That's it!

