Study Guide for Chap 15

- 1. Study how to identify the limits of integration $\int_*^* \int_*^* dx dy$ and $\int_*^* \int_*^* dy dx$ for general domains (that is, not rectangles).
- 2. Study how to interchange between $\int \int dx dy$ and $\int \int dy dx$ for general domains as in problems 33-54 of section 15.2.
- 3. Study why $dA = rdrd\theta$ in polar coordinates and how to determine the limits of integrations in $\int_*^* \int_*^* (*)rdrd\theta$ as in examples 2-6 in section 15.4.