## Homework 7

The following are due on Friday, October 19:
§5.2 $\# 6,11,17$.
$\S 5.3 \# 12,15,18 .^{1}$
§5.4 $\# 6,17$.
$\S 5.5 \# 1,11$, and write all six iterated integrals representing the volume of the region

$$
R=\left\{(x, y, z) \in \mathbb{R}^{3}: 0 \leq x \leq 1, \quad 0 \leq y \leq x, \quad 0 \leq z \leq 2 y\right\}
$$

(For example, set up the integral $d z d y d x$, then set it up $d y d z d x$, etc.) Then, compute its volume using one of the ways you wrote.

[^0]
[^0]:    ${ }^{1}$ For 18: if you don't think it's true, try to find a counterexample.

