## Homework 5

- 1. Problems finding volume of solids:
  - Section 6.3: 17, 19, 21, 29, 31
  - $\bullet$  Section 6.4: 5, 7, 9, 17, 25

Answer keys are in the back of the textbook.

- 2. Compute the following integrals using integration by parts several times:
  - (a)  $\int e^{-x} \cos x dx$  with  $u = \cos x$  and  $dv = e^{-x} dx$ .
  - (b)  $\int x^2 e^x dx$  with  $u = x^2$  and  $dv = e^x dx$ .