## Homework 5

1. Problems finding volume of solids:

- Section 6.3: 17, 19, 21, 29, 31
- 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) $\int e^{-x} \cos x d x$ with $u=\cos x$ and $d v=e^{-x} d x$.
(b) $\int x^{2} e^{x} d x$ with $u=x^{2}$ and $d v=e^{x} d x$.

