Section 12.2. In $\# 3$, plot all functions on the same graph. Make sure that your graph is properly labeled. In particular, axes and functions must be labeled.

Section 12.6. In $\# 3$, show that the functions $x^{2}$ and $\sin x$ are orthogonal on $[-1,1]$ by evaluating the appropriate integral directly. Ignore the hint.

