1. Study Example 8 in Section 24 (pages 198-9). On a computer graph $f_n(x)$ for $x \in [0,1]$ for $n = 1, 2, 3, 5,$ and $10$. If you know how overlay the plots are print the result; if not print the individual graphs. Now, imagine you are teaching the class and write a paragraph explaining intuitively why $\lim_{n \to \infty} f_n(x) = 0$ for $x \in [0, 1]$, but that the convergence is not uniform.

25.3(a) You can use the hint in the back of the book, but write out all the details.

25.6(a)