CSE 322: Introduction to Formal Models in Computer Science
Assignment #7
May 27, 1998
due: Wednesday, June 3

1. Exercise 3.4.1
2. Exercise 3.5.8. Use the version of the Pumping Lemma proved in class, rather than Exercise 3.5.7.
3. Exercise 3.5.14 (a), (b), and (d). Hints: Use closure properties liberally. Do part (d) before part (b).
4. Exercise 3.5.15
5. Exercise 3.6.1. Do this problem using the handouts rather than the textbook versions of Chomsky normal form and the dynamic programming algorithm. Instead of the string x given in the exercise, use the string
$$\texttt{id} + (\texttt{id} + \texttt{id}) * \texttt{id}$$
Also show how to recover the parse tree for this string from your dynamic programming table.