1. <u>Linz</u>; Section 6.2: 2, 11
   Section 7.1: 4(d), (h), (k), 6, 17

2. Let M denote the pda in file JHW5, and let $L = L(M)$.

 (a) Use set notation to describe L.
 (b) Modify M to create a new pda M_1, so that $L(M_1) = L^2$
 (c) Modify M to create a new pda M_2, so that $L(M_2) = L^*$
 (d) Modify M to create a new pda M_3, so that $L(M_3) = L \cup \{a^n b^{n+1} : n \geq 0\}$.

Note: Please submit JFlap files for 6 (in Section 7.1), 2(b), 2(c), and 2(d).

Use the handin utility on CSIF for electronic submission:

For example, if you're submitting the file "problem_6.jff"'s, use the following command on your CSIF account:

```
> handin shini hw6 problem_6.jff
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