Homework 5

To be done in groups of 1 to 4.
3 problems, 15 pts, due Wednesday, Feb. 14.

1. (5 pts) problem 12.7 on page 361. (Show how any recursively enumerable language $L$ can be reduced to the language $H = \{e(T)e(w)|T$ is a Turing Machine that halts on input $w\}$.)

2. (5 pts) Problem 12.11 on page 361. (Reduction one way or the other between $\text{Accepts}(\Lambda)$ and $\text{Accepts}(\{\Lambda\})$.)

3. (5 pts) Problem 12.20 on page 362. (Two examples of correspondence systems.)

**Reading:** You should carefully read chapter 12 up to and including 12.4 by Monday, and Sections 12.5 and 12.6 by Wednesday.