1. Homework 5, #4: induction step for $n! < n^n$.

2. Homework 5, #5: What is required to demonstrate that $f(n + 2) \mod f(n + 1) = f(n)$? For example, is $f(3) \mod f(2) = f(1)$?

3. Homework 6, #1: In an extended binary tree with height $h$, the number of leaves is at most $2^h$.

4. Homework 6, #3(b): There is a bijection from the equivalence classes of $R$ to what familiar mathematical set?

5. Carry-lookahead adder: a circuit for adding two $n$-bit numbers whose delay is only $O(\log n)$ instead of $\Theta(n)$: http://www.cs.umd.edu/class/sum2003/cmsc311/Notes/Comb/lookahead.html