- 1. Study Section 12.5.
- 2. Do Exercise 12.5.
- 3. Do Exercise 12.14.
- 4. Prove (12.16.1).

There are two base cases, one for n = 1 and one for n = 2. For the induction case, there are two inductive hypotheses—one with n - 1 and one with n. You can assume both of them to prove the case for n + 1. Start with the RHS, use (12.14), then the inductive hypotheses.

5. Prove (12.35a). The base case is n = 1.

6. Prove (12.35b).

The base case is n = 1.