Solve the following problems from the textbook:

1. Problem 5.15b
2. Problem 5.15d (only the first part related to Prob. 5.15b) (optional)
3. Problem 6.3b
4. Problem 6.3d (optional)
5. Problem 6.4b (use data from Table 6.4b)
6. Problem 6.6d
7. Problem 6.7a (use data from Table 6.4b)