Chapter 2, problems 3, 4 parts ii, x, 5 parts i, ii, 7 parts i, iii, v, vii, 9. When counting edges in Problem 5, you may assume a single edge can have multiple labels.

For the automata, try to provide accurate descriptors for each of the vertices.

Challenge Problem (no credit).
Suppose that languages $A$ and $B$ are both recognized by DFAs. Give a direct construction, i.e. without using NFAs, to show that $A \circ B$ is also recognized by a DFA.
Hint: What do you need to remember as the input is being read?