

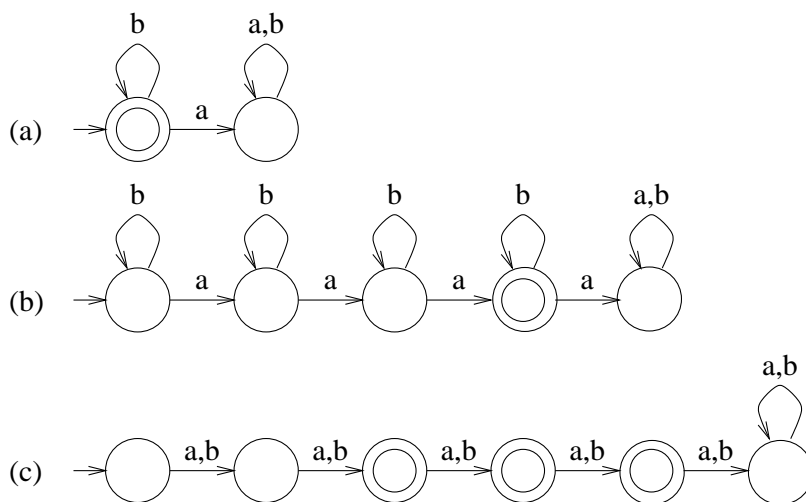
Automata Theory: Solutions 4

[illegible]

Problem 1

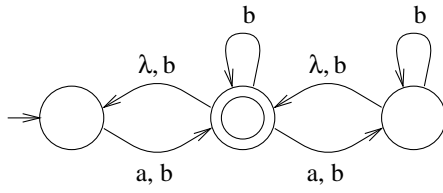
For each of the following languages on $\Sigma = \{a, b\}$, draw a DFA that accepts it.

- All strings that have no a 's.
- All strings with three a 's and any number of b 's.
- All strings of lengths two, three, and four.



Problem 2

For the alphabet $\Sigma = \{a, b\}$, draw a DFA that is equivalent to the following NFA.



An equivalent deterministic accepter is as follows:

