1. (10 points total) Consider the following NFA:

(a) (1 point each) For each string below, circle “accept” if the string is accepted by the NFA, and “reject” if it is rejected.

\[
\begin{align*}
\varepsilon & \quad \text{accept / reject} \\
abab & \quad \text{accept / reject} \\
bbba & \quad \text{accept / reject} \\
ba & \quad \text{accept / reject} \\
baa & \quad \text{accept / reject}
\end{align*}
\]

(b) (5 points) Write down a regular expression for the language accepted by this NFA.
2. (10 points) Convert the following NFA to a DFA using the algorithm discussed in class.