

7. Give an NFA with ϵ -transitions for the language $\{w \mid w \text{ is formed by repeating } 01 \text{ one or more times, or } w \text{ is formed by repeating } 0110 \text{ one or more times}\}$. Try to make the ϵ -NFA as simple as possible.
8. Show that if L is accepted by some ϵ -NFA, then L is also accepted by a DFA.
9. For the following NFA with ϵ -transitions:
 - (a) give the transition table
 - (b) find $Eclose(q)$, for each state q .
 - (c) find $\hat{\delta}(q_0, a)$ and $\hat{\delta}(q_0, b)$.
 - (d) find a DFA which is equivalent to the given automata (you need not go through the formal method discussed in class).