Fx

Propose a <u>deterministic</u> finite state automaton which recognizes all the words on Σ^* which start with the prefix ab, include the factor cba, and do not end with c ($\Sigma = \{a, b, c\}$).

Ex. 2

Propose a <u>complete</u> <u>deterministic</u> finite state automaton which recognizes all the words on Σ^* such that all c's are before all b's (if any), the number of c's is odd (thus ≥ 1) and the number of a's is even, and b's can occur only if they are not followed by a's $(\Sigma = \{a, b, c\})$.

Ex. 3___

Propose a deterministic finite state automaton which recognizes the language $\{w \in \Sigma^* \mid \exists u \in \Sigma^* \mid w = uu \ \& \ |w| \leq 4\}$, with $\Sigma = \{a, b, c\}$. L is the set of all the words of length ≤ 4 which are formed by the concatenation of two identical factors.