Theory of Computation

Exercise 4:

(Closure properties of Regular Language and Regular Expression)

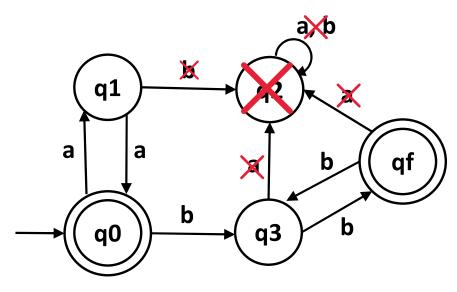
1. Prove that the language $\{a^mb: m \ge 1 \ and \ m \ne 100\}$ is regular.

2. Find regular expression for the following language

 $L = \{ w \in \{a, b\}^* : w \text{ does not end with } ab \}$

*3. Find regular expression for the following DFA.

(Homework 3)



$$L = \lambda + (aa)*.(bb)*+(aa*.bb)+bb$$