

Theory of Computation

Exercise 4:

(Closure properties of Regular Language and Regular Expression)

1. Prove that the language $\{a^m b : m \geq 1 \text{ and } m \neq 100\}$ 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)

