

# COMP3721 Tutorial 3

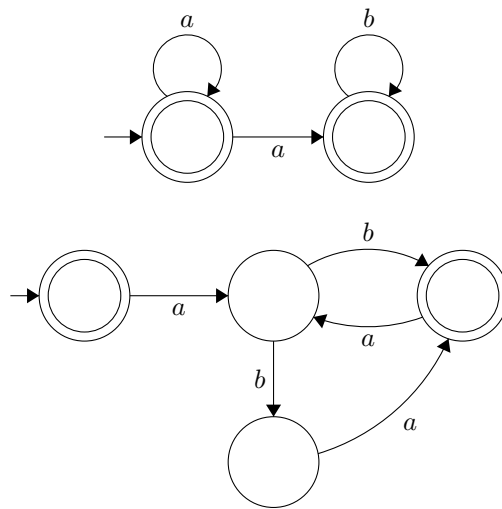
## 1 NFAs and Regular Expressions

1. Draw state diagrams for NFAs that accepts the following languages.

(a)  $(ab)^*(ba)^* \cup aa^*$

(b)  $((ab \cup aab)^* a^*)^*$

2. Write regular expressions for the languages accepted by the following NFA.



3. (a) Find a simple NFA accepting  $(ab \cup aab \cup aba)^*$ .

(b) Convert the NFA of (a) to DFA.