

CSCI 3236 Homework #5

Due date: October 5, 2022 (Wednesday), 11:59 pm

Design finite automata that accept the described languages by drawing state diagrams.

1. (10pts) The set of strings over $\{a, b\}$ in which the number of a's is divisible by three.
2. (10pts) The set of strings over $\{a, b\}$ that do not contain the substring aaa .
(*Hint*: design a finite automaton to accept the complement of the language. Then interchange the accepting and non-accepting states.)