Homework #7 due May 20,2025 before recitation

**Question 1** 

A CFG is called right linear if all productions are of the form  $A \rightarrow a B$  or  $A \rightarrow e$  and called left

linear if all productions are of the form  $A \rightarrow B$  a or  $A \rightarrow e$  where  $A, B \in V$  and  $a \in T$  and e is the

empty string.

Show that both right linear and left linear grammars generate regular languages. Specify finite

state machines corresponding respectively to right and left linear grammars.

Main Text: Exercise 7.1.3, 7.1.4, 7.2.1 (b), (c), 7.4.3(b), (c)