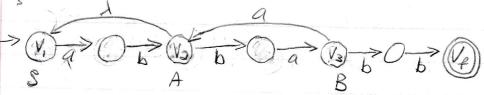
Module # 7 Homework | Sec 3.3 # 2,3,5,7

For #2, NFA is enough.

2. Construct an NFA that accepts the language generated by the grammer $S > abS | A \Rightarrow baB$ B > aA | bb



3. Find a regular grammer that generates the language (L(qa*(ab+a)*).

 $P=\{S \Rightarrow aA, A \Rightarrow aA|BB, B \Rightarrow abB|aB|A\}$ $G=\{\{S,A,B\},\{a,b\},S,P\}$

5. construct right and left-linear grammers for the language L= {a^b} : n≥3, m≥23

· Gr = ({s,A,B}, {a,b3, s, P,)

Pr={S > aaaA, A > aA | bB, B > bB | b}

· GL = ({S,A,B}, {a,b}, S, PL)

PL = {S-> Bbb, B-> Bb | Aga, A-> Ag | a }

7. G shorten $\Xi = \{a,b\}$ Grammer of language of all strings w/no more than two a's. $G = (\{S,A,B,B\}, \{a,b\}, S, P)$ $P = \{S > bS \mid aA \mid A \mid A \Rightarrow aB \mid bA \mid A \mid B > bB \mid b\}$