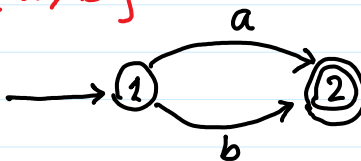
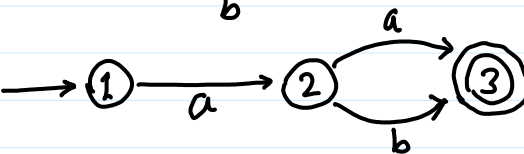

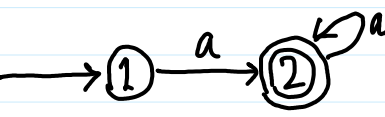


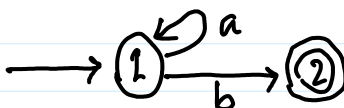
Consider $\Sigma = \{a, b\}$

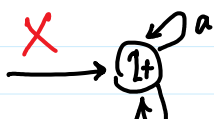
i. $a/b =$  $\Rightarrow \{a, b\}$


ii. $a(a/b) =$  $\Rightarrow \{aa, ab\}$

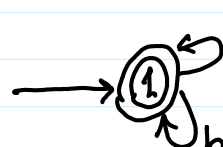
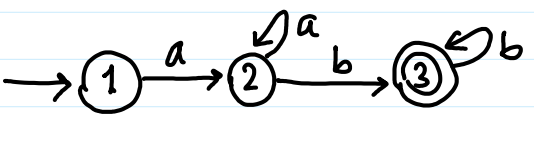
iii. $a^* =$  $\Rightarrow \{\epsilon, a, aa, aaa, \dots\}$

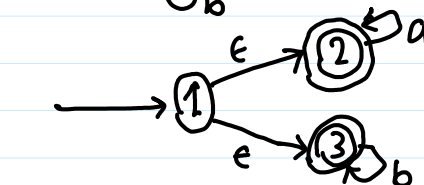
iv. $a^+ =$  $\Rightarrow \{a, aa, aaa, \dots\}$

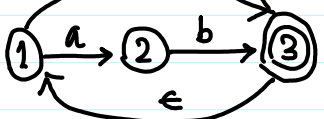
v. $a^*b =$  $\Rightarrow \{b, ab, aab, aaaab, \dots\}$

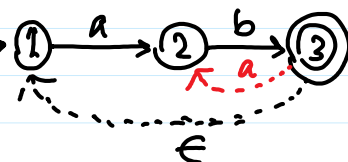
vi. $a^*b^* =$  $\{ \epsilon, b, a, aaa, bbb, aabbb, \underline{ababababbb}, \dots \}$

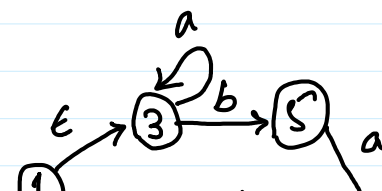
vii. $a^+b^+ =$  $\Rightarrow \{ \epsilon, a, b, aaaa, bbbb, aaaaa, \dots \}$

viii. $(a/b)^* =$  \nrightarrow 

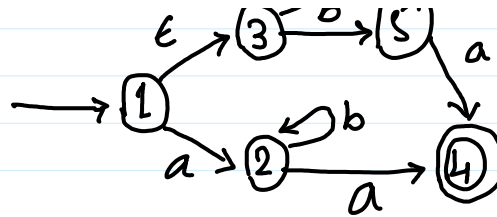
ix. $a^*/b^* =$ 

x. $(ab)^* = \{ \epsilon, \underline{ab}, \underline{abababab}, \dots \}$ 

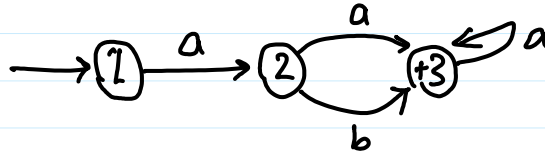
xi. $(ab)^+ = \{ ab, abab, ababab, \dots \}$ 

xii. $\underline{a^*ba} / \underline{ab^*a}$ 

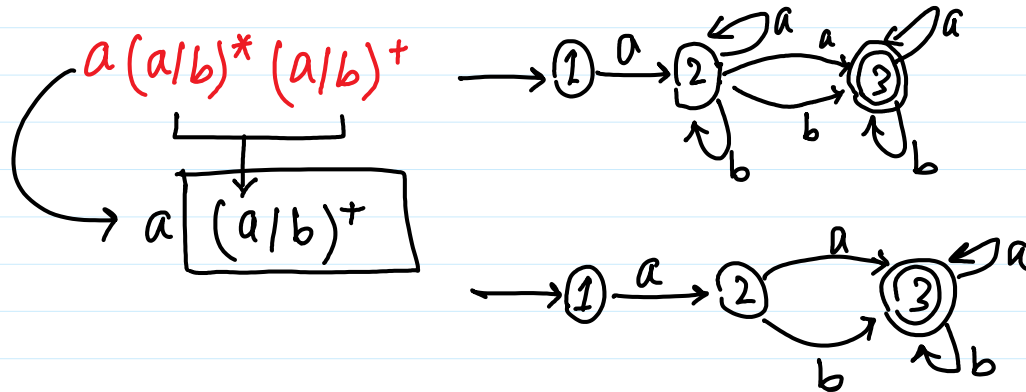
xii. $\underline{a \cdot b a} / \underline{a b \cdot a}$



xiii. $a(a/b)a^*$



xiv. $a(a/b)^*(a/b)^+$



xv. $a(\underline{ab/ba})b$

