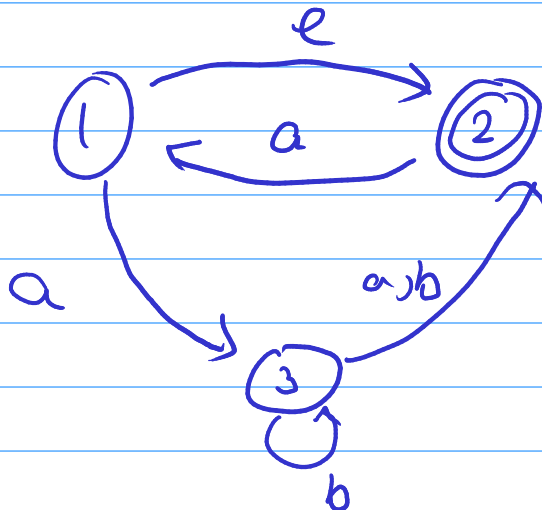
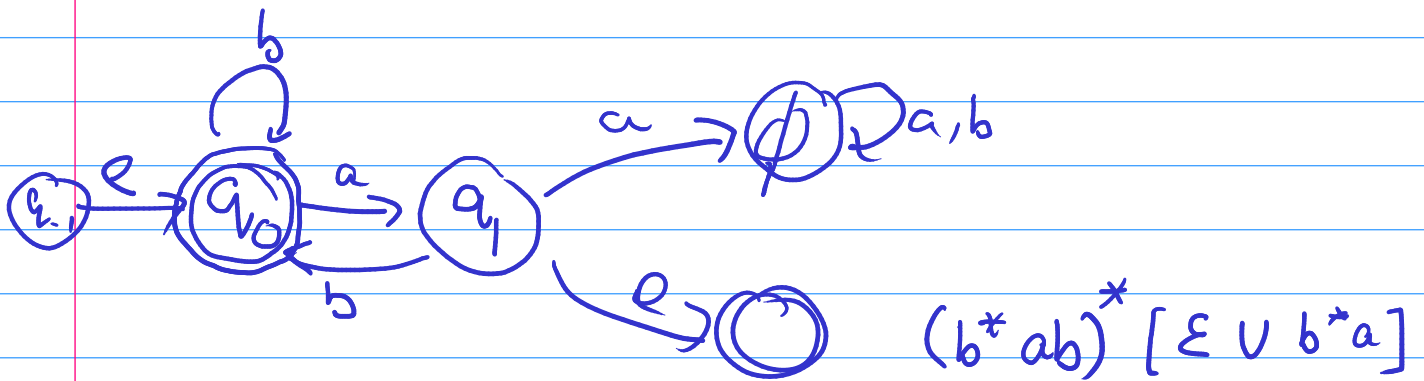
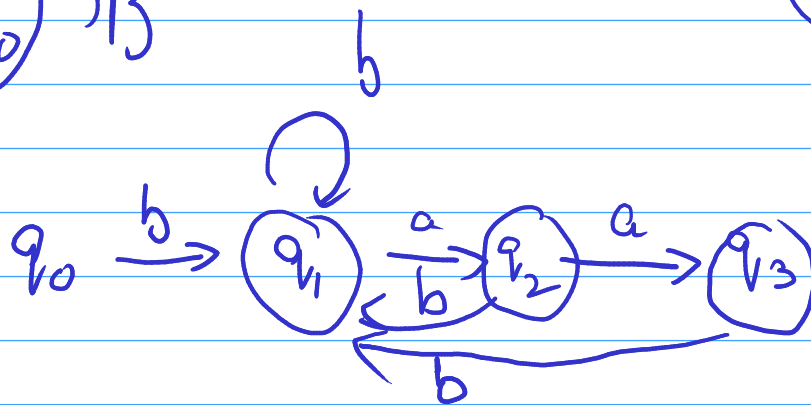
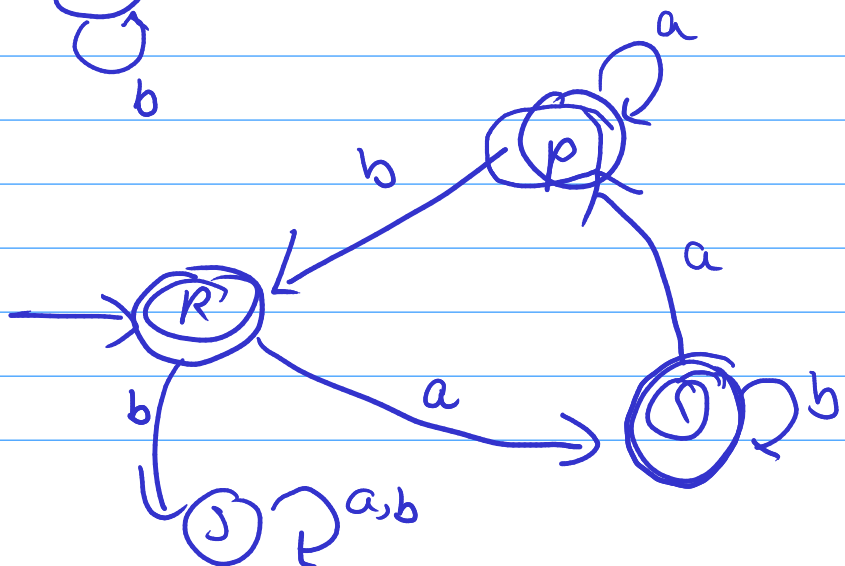


b w a a d f a



Complete
DFA
(just
convert)



$\{C\} \{A, B, D, E, F, G, H\}$

$\{C\} \{B, H\} \{F, D\} \{A, E, G\}$

$\{C\}, \{B, H\}, \{F, D\}, \{A, E\} \{G\}$

δ	a	b	
q_0	q_1	q_0	$\{q_0, q_1, q_3, q_4\}$
q_1	q_0	q_3	$\{q_1, q_5, q_6\}$
q_2	q_4	q_5	$\{\{q_0\} \{q_1, q_3, q_4\}$
q_3	q_4	q_1	
q_4	q_2	q_6	$\{q_1, q_5, q_6\}\} = \Pi_1$
q_5	q_0	q_2	
q_6	q_3	q_4	$\{\{q_0\} \{q_2, q_3, q_4\}$
			$\{q_1, q_5\} \{q_6\}\} = \Pi_2$

$$\Pi_3 = \{\{q_6\} \{q_6\} \{q_2, q_3\} \{q_4\} \{q_1, q_5\}\}$$

$$\Pi_4 = \Pi_3$$

$\Pi_4 = \Pi_f \Rightarrow$ by renaming the equivalence classes

$$p_0 = \{q_0\} \quad p_1 = \{q_1, q_5\} \quad p_2 = \{q_2, q_3\} \quad p_3 = \{q_4\} \\ p_4 = \{q_6\}$$

We construct an equivalent minimal DFA as shown in the following

