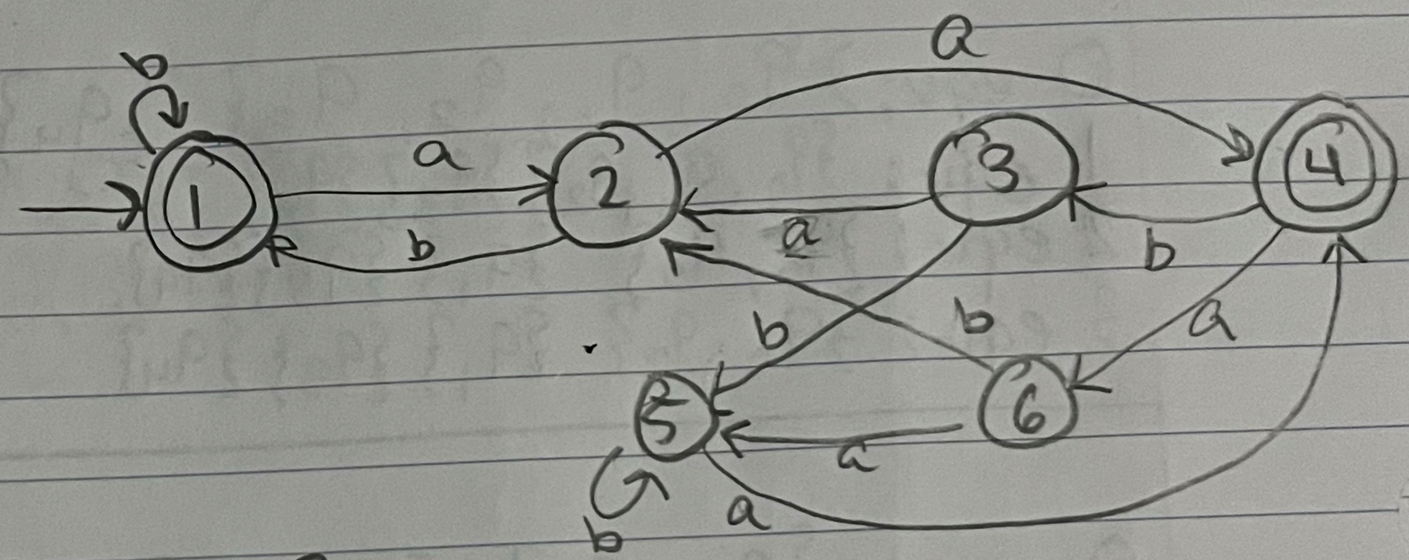
0 equ: $\{q_0, q_1, q_2, q_5, q_6, q_7\}\{q_3, q_4\}$
1 equ: $\{q_0, q_6\}\{q_1, q_2\}\{q_3, q_4\}\{q_5, q_7\}$
2 equ: $\{q_0\}\{q_6\}\{q_1, q_2\}\{q_3, q_4\}\{q_5, q_7\}$

Quiz 7 Liam Maher

	a	b
→ ①	2	1
2	4	1
3	2	5
④	6	3
5	4	5
6	5	2

NOTE: Used Myhill-Nerode to check because I did not think the answer was right, still used state reduction as you can see below.



① equ: $\{2, 3, 5, 6\}\{1, 4\}$
1 equ: $\{2\}\{3, 6\}\{5\}\{1\}\{4\}$
2 equ: $\{2\}\{1\}\{4\}\{5\}\{3\}\{6\}$

CHECK

2	✓				
3	✓	X			
4	X	✓	✓		
5	✓	X	X	✓	
6	✓	X	X	✓	X
	1	2	3	4	5

6

$(1,4)$ - $\delta(1,a):2$, $\delta(4,a):6$ } $(1,b):1$, $(4,b):3$

$(2,3)$ - $\delta(2,a):4$, $\delta(3,a):2$ $(2,b):1$, $(3,b):5$

$(5,6)$: $\delta(5,a):4$, $\delta(6,a):5$

$(3,6)$: $\delta(3,a):2$, $(6,a):5$

$(3,5)$: $\delta(3,a):2$, $\delta(5,a):4$

$(2,5)$ - $\delta(2,a):4$, $(5,a):4$ } $(2,b):1$, $(5,b):5$

$(2,6)$ - $\delta(2,a):4$, $\delta(6,a):5$