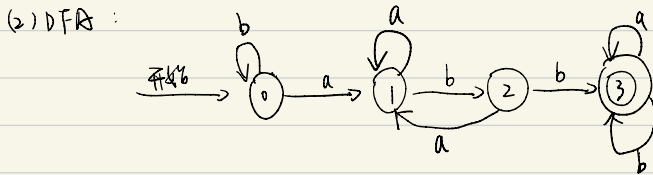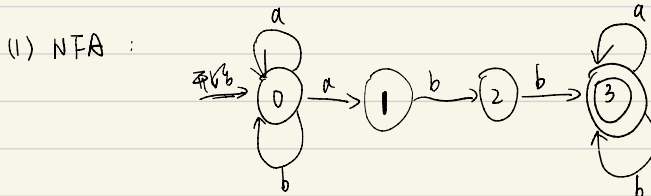教材 2.7(d)

为下列正规式手工构造NFA和DFA, 再用算法将NFA变换成DFA并构造最简的DFA

(a|b)*abb(a|b)*

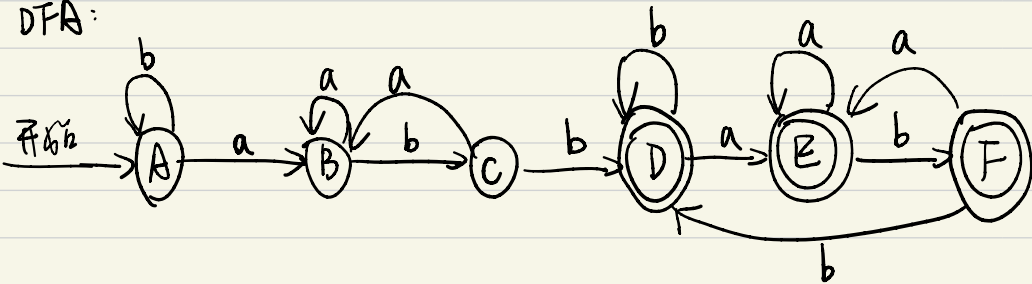(1) NFA :

(2) DFA :

(3)

$A = \{0\}$

$B = \{0,1\}$

$C = \{0,2\}$

$D = \{0,3\}$

$E = \{0,1,3\}$

$F = \{0,2,3\}$

状态	输入符号	
	a	b
A	B	A
B	B	C
C	B	D
D	E	D
E	E	F
F	E	D

DFA :

(4)苦问DFA:

① 按末奋状将各状态分: $\{A,B,C\}$, $\{D,E,F\}$

$$move(\{A,B,C\},a) = \{B\}$$

$$move(\{A,B,C\},b) = \{A,C,D\}$$

② 按兦分区分

∴ 分为 $\{A,B\}$, $\{C\}$, $\{D,E,F\}$

$$move(\{A,B\},a) = \{B\}$$
$$move(\{A,B\},b) = \{A,C\}×$$

状态	输入符号	
	a	b
A	B	A
B	B	C
C	B	D
D	E	D
E	E	F
F	E	D

③. 故中存在两个状态
   分为 $\{A\}$, $\{B\}$, $\{C\}$, $\{D,E,F\}$

∴ 化简为