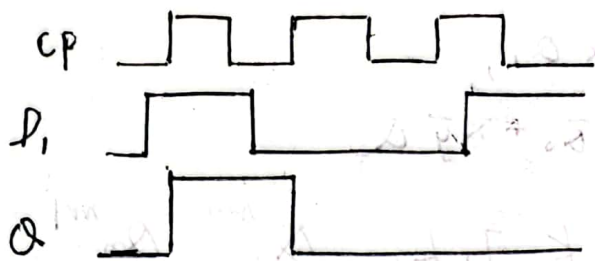


3.2



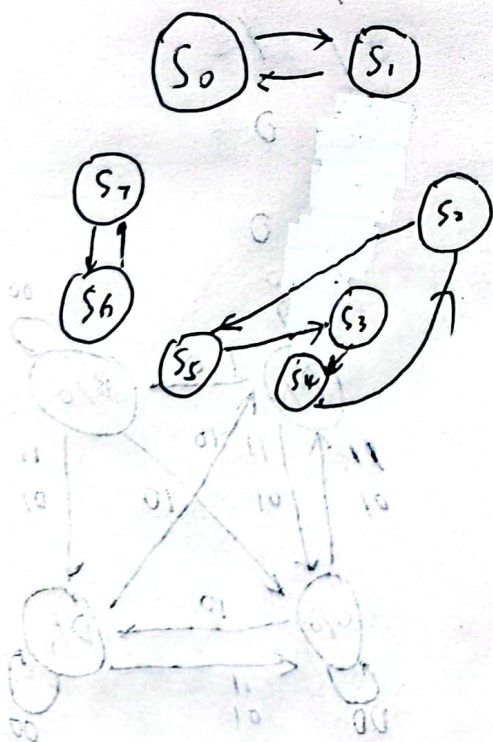
3.3.

$$D_0 = Q_1$$

$$D_1 = Q_2$$

$$D_2 = \overline{Q_0} Q_1 + Q_0 \overline{Q_1} Q_2 + \overline{Q_0} \overline{Q_1} \overline{Q_2}$$

Q_0, Q_1, Q_2	Q_0^{n+1}	Q_1^{n+1}	Q_2^{n+1}
0 0 0	0	0	1
1 0 0	0	0	0
0 1 0	1	0	1
1 1 0	1	0	0
0 0 1	0	1	0
1 0 1	0	1	1
0 1 1	1	1	0
1 1 1	1	1	1



Σ	11	01	10	00	$Q_2 \backslash Q_1 Q_0$
1	C	B	C	A	A 00
0	D	C	D	B	B 01
0	A	D	A	C	C 10
1	C	A	C	D	D 11



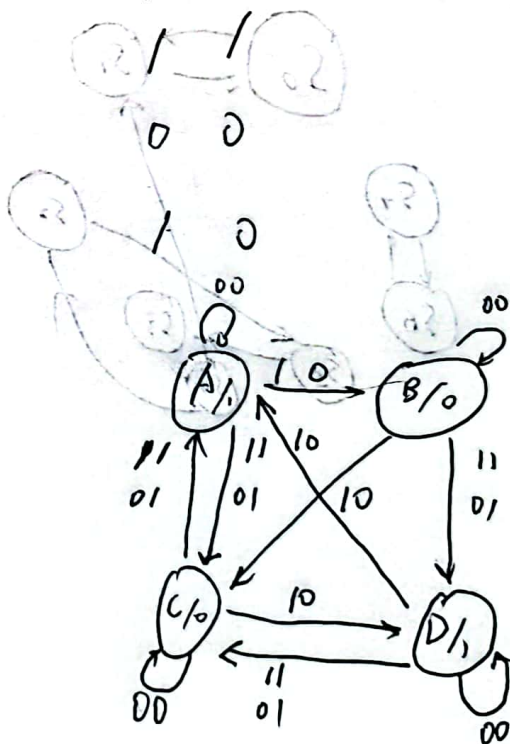
3.5

$$J_0 = x\bar{y}, k_0 = x\bar{y} + xQ_1,$$

$$J_1 = y + xQ_0, k_1 = y\bar{Q}_0 + x\bar{y}Q_0.$$

xy	Q_1	Q_0	J_1	k_1	J_0	k_0	Q_1^{n+1}	Q_0^{n+1}
00	0	0	0	0	0	0	0	0
00	0	1	0	0	0	0	0	1
00	1	0	0	0	0	0	1	0
00	1	1	0	0	0	0	1	1
01	0	0	1	1	0	0	1	0
01	0	1	1	1	0	0	1	1
01	1	0	1	0	0	0	0	0
01	1	1	1	0	0	0	0	1
10	0	0	0	0	1	1	0	0
10	0	1	0	0	1	1	0	1
10	1	0	0	1	1	1	1	0
10	1	1	0	1	1	1	1	1
11	0	0	1	1	0	0	1	0
11	0	1	1	1	0	0	1	1
11	1	0	1	0	0	0	0	0
11	1	1	1	0	0	0	0	1

$Q_1 \backslash xy$	00	01	10	11	Z
A 00	A	C	B	C	1
B 01	B	D	C	D	0
C 10	C	A	D	A	0
D 11	D	C	A	C	1

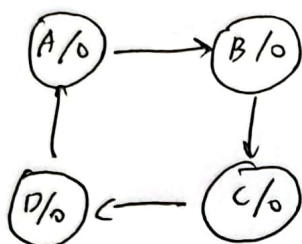


3.6

$$D_0 = \overline{Q_0}$$

$$D_1 = Q_1 \oplus Q_0$$

$$F = Q_1 \cdot Q_0$$



循环计数器

01	11	10	00	1001
01A	11A	10A	00A	A
01B	11B	10B	00B	B

3.14

B	X			
C	X	✓		
D	BC✓	X	X	
E	AD✓ BEX	X	X	BC✓ DEX
	A	B	C	D

A, D 等效, A'

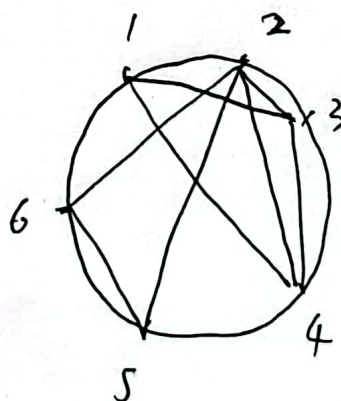
B, C 等效 B'

E : C'

X, X_1	00	01	11
Y			
A'	$A'/1$	$B'/0$	$C'/1$
B'	$A'/0$	$C'/0$	$B'/1$
C'	$A'/1$	$B'/0$	$B'/1$

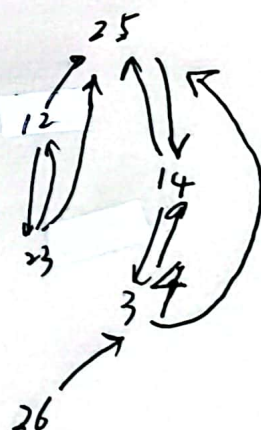
3.15.

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



$(1, 4, 3) \rightarrow A$

$(2, 5, 6) \rightarrow B.$



扫描全能王 创建

$x_2 x_1$	00	01	11	10
A	A/0	A/0	B/1	A/0
B	B/1	A/0	B/1	B/0

$x_2 x_1$	11	10	00	01
A	A/0	A/0	A/0	A/0
B	B/1	B/1	B/1	B/1

