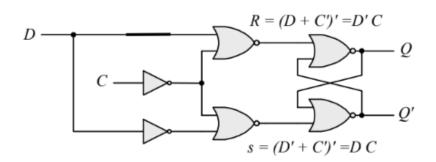
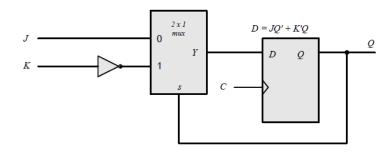
(b)

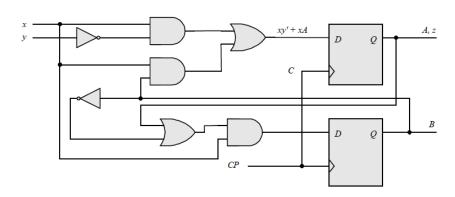


C(En)	D	S	R	Next state of Q
0	Х	0	0	No change
1	0	0	1	0, reset state
1	1	1	0	1, set state

5.2



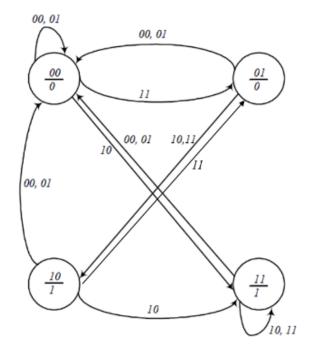
5.6



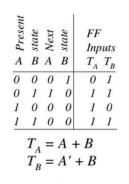
(b)

(5)						
Present State		Input		Next State		Output
Α	В	х	у	Α	В	z
0	0	0	0	0	0	0
0	0	0	1	0	0	0
0	0	1	0	1	1	0
0	0	1	1	0	1	0
0	1	0	0	0	0	0
0	1	0	1	0	0	0
0	1	1	0	1	0	0
0	1	1	1	1	0	0
1	0	0	0	0	0	1
1	0	0	1	0	0	1
1	0	1	0	1	1	1
1	0	1	1	0	1	1
1	1	0	0	0	0	1
1	1	0	1	0	0	1
1	1	1	0	1	1	1
1	1	1	1	1	1	1

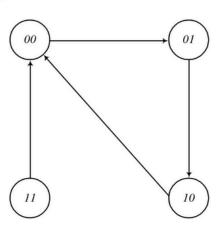
(c)



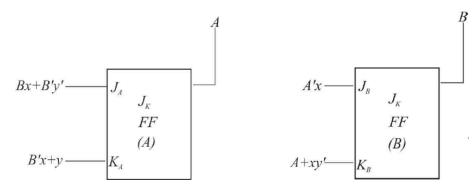
5.8 A counter with a repeated sequence of 00, 01, 10.

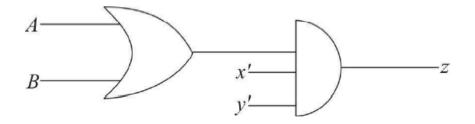


Repeated sequence:



5.10 (a)





(b) State Table:

A(t)	B(t)	\boldsymbol{x}	y	A((t + 1)	B(t + 1))	z
0	0		0	0	1		0	0
0	0		0	1	0		0	0
0	0		1	0	1		1	0
0	0		1	1	0		1	0
0	1		0	0	0		1	1
0	1		0	1	0		1	0
0	1		1	0	1		0	0
0	1		1	1	1		1	0
1	0		0	0	1		0	1
1	0		0	1	0		0	0
1	0		1	0	0		0	0
1	0		1	1	0		0	0
1	1		0	0	1		0	1
1	1		0	1	0		0	0
1	1		1	0	1		0	0
1	1		1	1	0		0	0