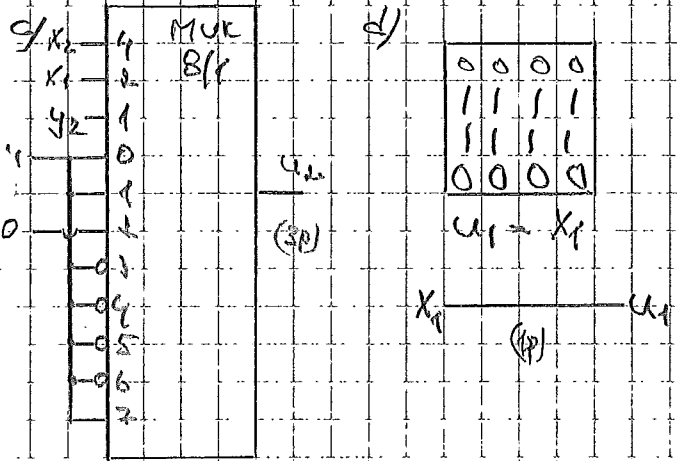
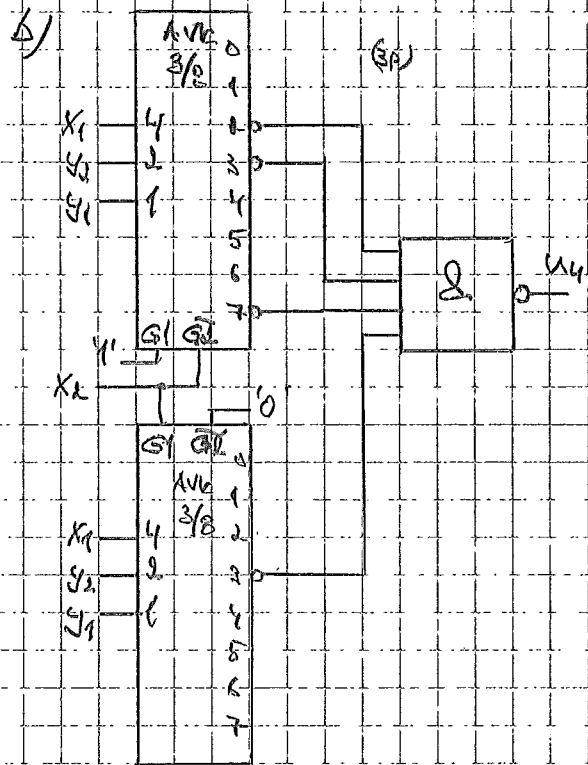


$$u_0 = (y_2 \vee y_1) \cdot (x_2 \vee x_1)$$

$$u_0 = [(y_2 \vee y_1) \vee (x_2 \vee x_1)]'$$



3.

$$J_1 = q_2 \quad J_2 = (q_3 \cdot q_1)' = q_3 \vee q_1$$

$$K_1 = q_3 \quad K_2 = (q_3 \cdot q_1)' = q_3 \vee q_1$$

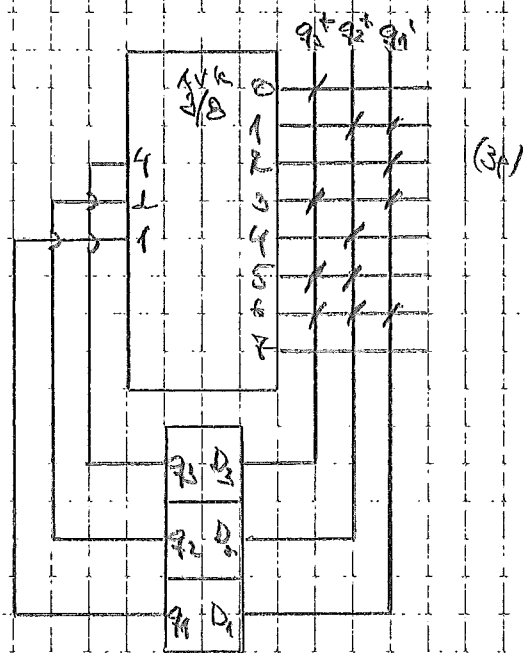
$$J_3 = K_3 = [(q_2 \cdot q_1)' \cdot (q_2 \cdot q_2)]' = q_2 \cdot q_1 \vee q_2 \cdot q_1$$

(LOGISCHER VERFAHREN)

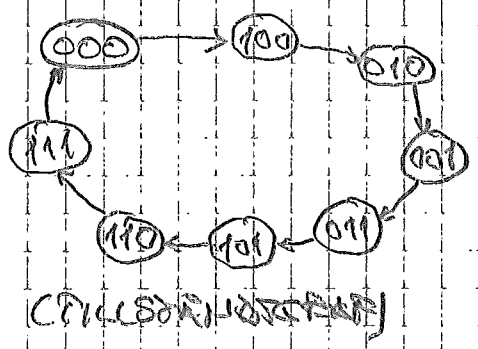
$q_3 q_2 q_1$	$J_1 K_1$	$J_2 K_2$	$J_3 K_3$
000	11	01	00
001	00	11	00
010	00	01	10
011	11	11	10
100	11	10	01
101	00	11	01
110	00	10	11
111	11	11	11

$q_3 q_2 q_1$	$q_3' q_2' q_1'$
000	100
001	011
010	001
011	101
100	010
101	110
110	111
111	000

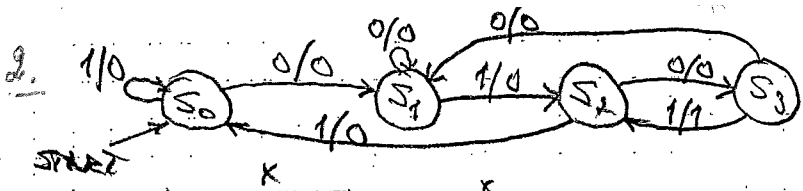
(CRISTOPHERI-METHOD)



(ILLUSTRATION)



(ILLUSTRATION)



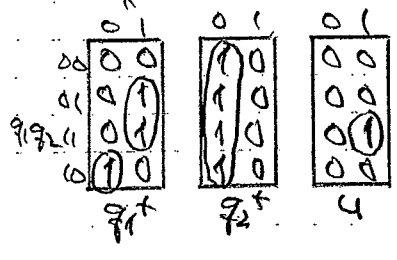
	0	1
S_0	$S_1/0$	$S_0/0$
S_1	$S_1/0$	$S_2/0$
S_2	$S_3/0$	$S_0/0$
S_3	$S_1/0$	$S_2/1$

S^*/U

SP-PART: JUNE-10
 $S_0 S_1 \rightarrow S_0 S_0 \rightarrow S_1 S_0$
 $S_0 S_2 \rightarrow S_1 S_2 \rightarrow S_2 S_2$
 $S_0 S_3 \rightarrow S_0 S_3 \rightarrow S_1 S_3$
 $S_1 S_2 \rightarrow S_1 S_2 \rightarrow S_2 S_2$
 $S_1 S_3 \rightarrow S_1 S_3 \rightarrow S_2 S_3$
 $S_2 S_3 \rightarrow S_2 S_3 \rightarrow S_3 S_3$

	$q_1 q_2$	0	1
S_0	00	01/0	00/0
S_1	01	01/0	10/0
S_2	10	11/0	00/0
S_3	11	01/0	10/1

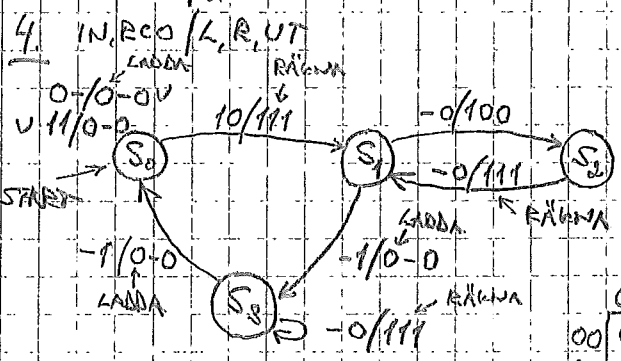
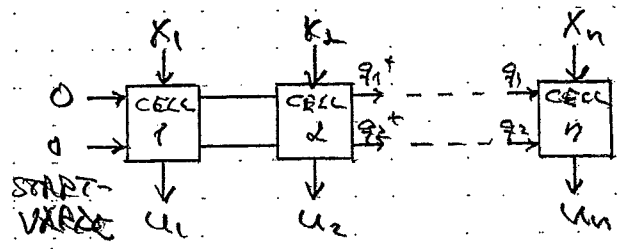
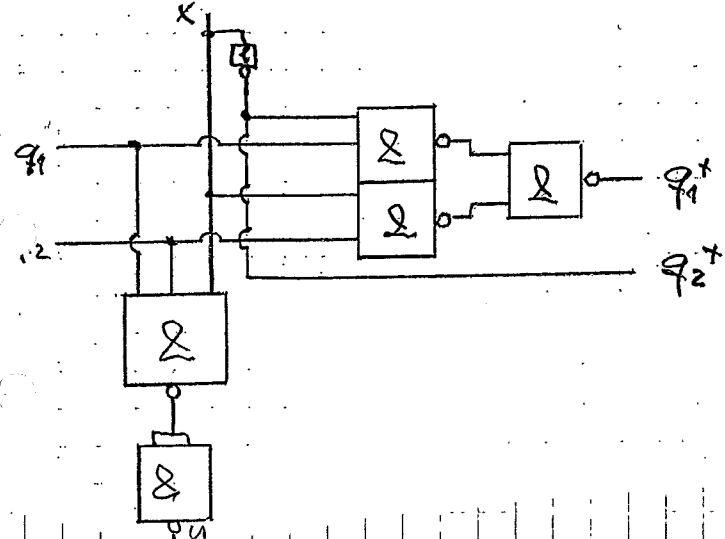
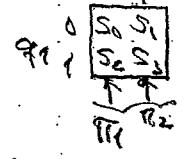
$q_1^* q_2^* / u$



$$q_1^* = q_1 q_2 \cdot K' \vee q_2 \cdot X = [(q_1 q_2 \cdot X)' \cdot (q_2 \cdot X)]'$$

$$q_2^* = X'$$

$$u = q_1 \cdot q_2 \cdot X = [(q_1 q_2 \cdot X)]'$$



	$q_1 q_2$	00	01	11	10
S_0	00	00/0-0	00/0-0	00/0-0	01/100
S_1	01	11/100	10/0-0	10/0-0	11/100
S_2	11	01/111	-	-	01/111
S_3	10	10/111	00/0-0	00/0-0	10/111

GRAY-Code

	$q_1 q_2$	IN, RCO				$q_1^* q_2^* / L, R, UT$			
		00	01	11	10	00	01	11	10
00	00	00	01	00	01	00	01	-	-
01	11	11	11	10	01	10	01	01	-
11	01	-	-	01	-	11	-	11	-
10	10	01	01	00	00	10	01	11	00

0	0	0	0	-	-	-
1	1	1	1	-	-	-
-	-	-	-	1	-	1
-	-	-	-	0	1	0

$q_1^* \quad q_2^*$

0	0	0	1	-	-	-
-	-	-	-	0	1	0
-	-	-	-	0	-	0
0	0	0	0	-	-	-

$L \quad R \quad UT$

$$\begin{cases} L_1 = q_2 \\ R_1 = q_2 \vee RCO \end{cases}$$

$$\begin{cases} L_2 = q_1 \cdot IN \cdot RCO' \\ R_2 = RCO \end{cases}$$

$$\begin{cases} L = RCO' \cdot (q_1 \vee q_2 \vee IN) \\ R = q_1 \\ UT = q_1 \cdot RCO' \end{cases}$$