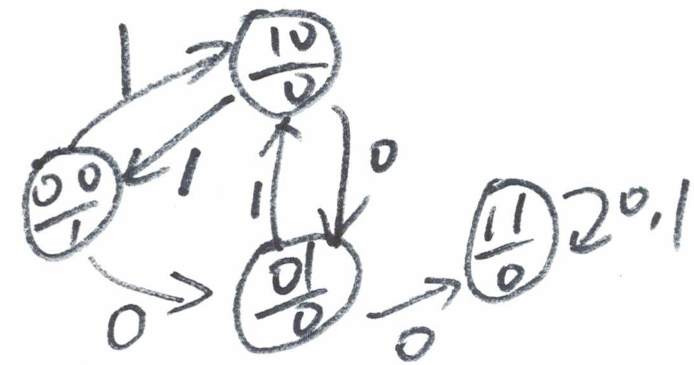
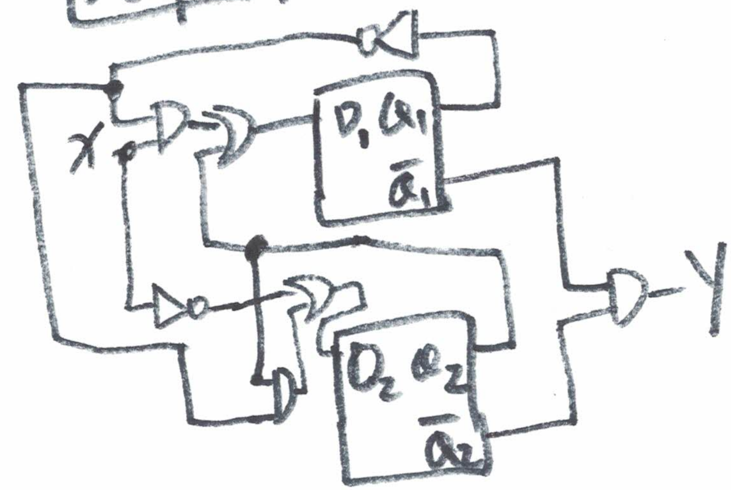
△ Diagram → Circuit



Step2:



step1:

x	Q_1	Q_2	Q_1'	Q_2'	Y	Y'
0	0	0	0	1	1	0
0	0	1	1	1	0	0
0	1	0	0	1	0	0
0	1	1	1	1	0	0
1	0	0	1	0	1	0
1	0	1	1	0	0	0
1	1	0	0	0	0	1
1	1	1	1	1	0	0

$Q_1' = x\bar{Q}_1 + Q_2$

x \ Q_1Q_2	00	01	11	10
0	0	1	1	0
1	1	1	1	0

$Q_2' = \bar{x} + Q_1Q_2$

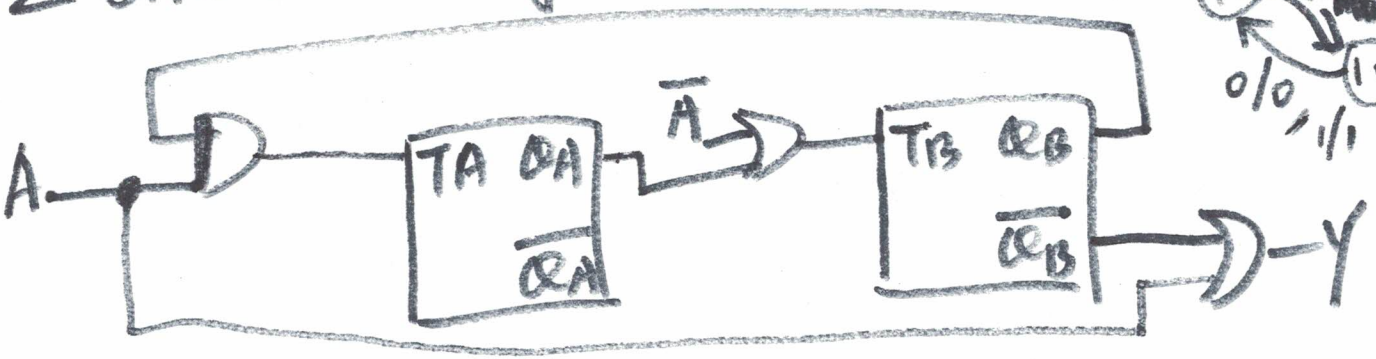
x \ Q_1Q_2	00	01	11	10
0	1	1	1	1
1	0	0	1	0

$Y = \bar{Q}_1\bar{Q}_2$

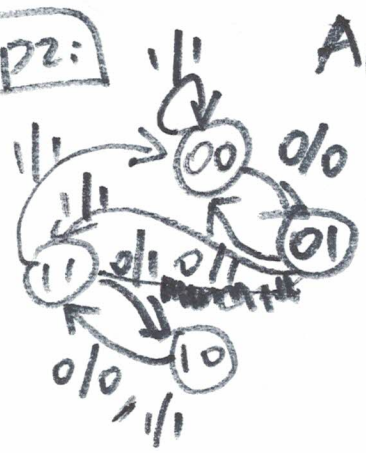
x \ Q_1Q_2	00	01	11	10
0	1			
1	1			

Examples: Mealy Machines

△ Circuit → Diagram



Step2: A/Y'



Step1.

A	Q_A	Q_B	Q_A'	Q_B'	T_A	T_B	Y	Y'
0	0	0	0	1	0	1	1	0
0	0	1	0	0	0	1	0	1
0	1	0	1	1	0	1	1	0
0	1	1	1	0	0	1	0	1
1	0	0	0	0	0	0	1	1
1	0	1	1	1	1	0	1	1
1	1	0	1	0	0	1	1	1
1	1	1	0	0	1	1	1	1

Q_A':

T_A	Q_A'
0	Q_A
1	$\overline{Q_A}$

Q_B':

T_B	Q_B'
0	Q_B
1	$\overline{Q_B}$

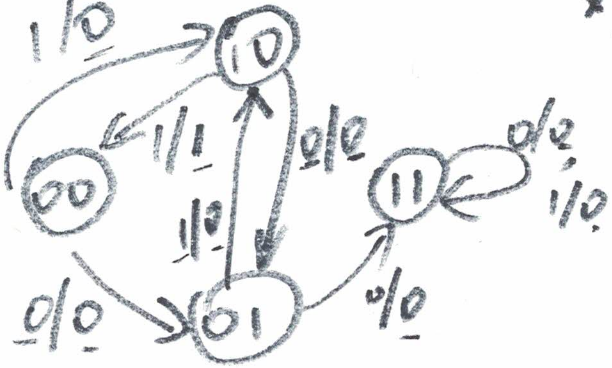
$T_A = A \cdot Q_B$

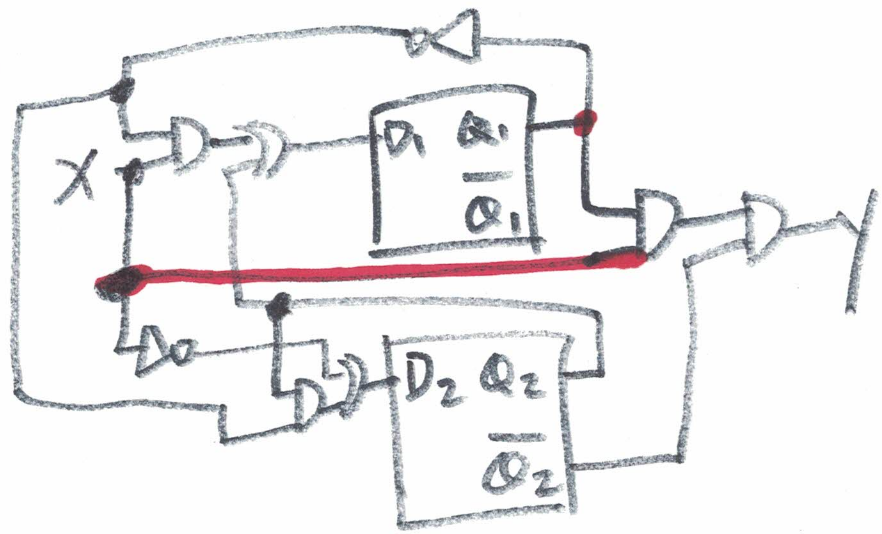
$T_B = \overline{A} + Q_A$

$Y = A + \overline{Q_B}$

$Y' = A + \overline{Q_B}'$

x/y'





Step1:

X	Q1	Q2	Q1'	Q2'	Y'
0	0	0	0	1	0
0	0	1	1	1	0
0	1	0	0	1	0
0	1	1	1	1	0
1	0	0	1	0	0
1	0	1	1	0	0
1	1	0	0	0	1
1	1	1	1	1	0

$Q_1' = X\overline{Q_1} + Q_2$

X \ Q1Q2	00	01	11	10
0	0	1	1	0
1	1	1	1	0

$Q_2' = \overline{X} + Q_1Q_2$

X \ Q1Q2	00	01	11	10
0	1	1	1	1
1	0	0	1	0

$Y' = XQ_1\overline{Q_2}$

X \ Q1Q2	00	01	11	10
0				
1				

(1)

(3)