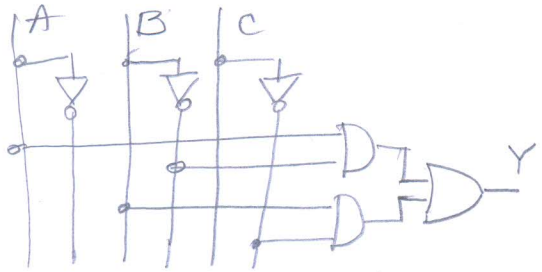
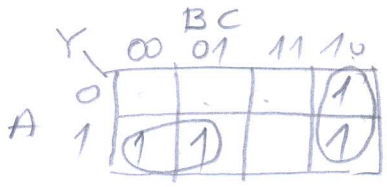
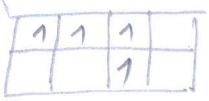
DE-20150909 – 1

① 

$Y = A\bar{B} + B\bar{C}$



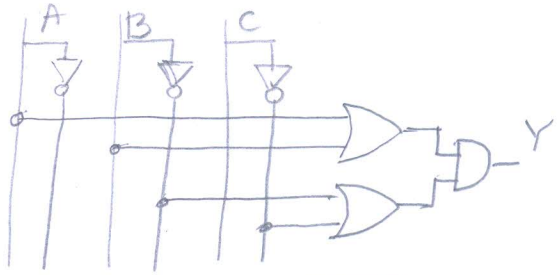


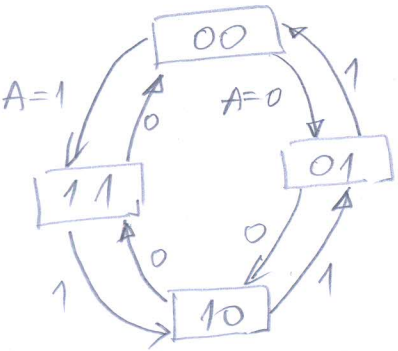
A	B	C	Y
0	0	0	0
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

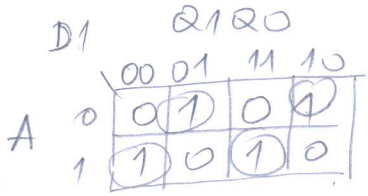
$\bar{Y} = A\bar{B} + BC$;

$Y = \bar{\bar{Y}} = \overline{A\bar{B} + BC}$

$Y = (\bar{A} + B)(\bar{B} + \bar{C})$

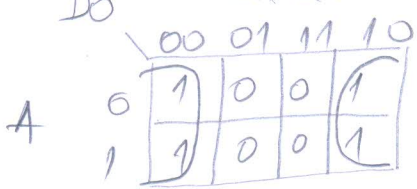


② 



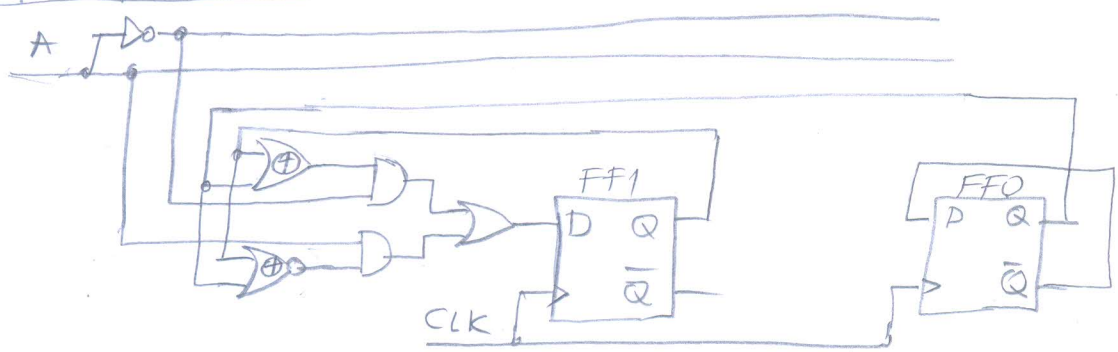
$D1 = \bar{A}\bar{Q1}Q0 + \bar{A}Q1\bar{Q0} + A\bar{Q1}\bar{Q0} + AQ1Q0$

$D1 = \bar{A}(Q1 \oplus Q0) + A\overline{(Q1 \oplus Q0)}$

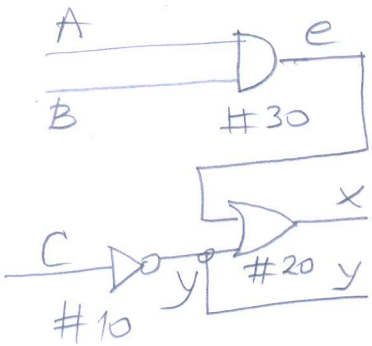


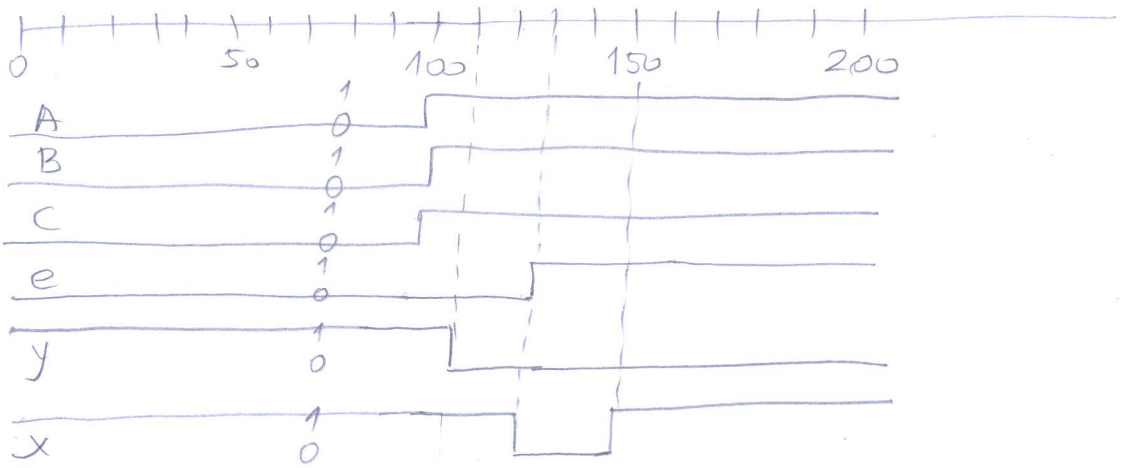
$D0 = \overline{Q0}$

	n	n+1	
A	Q1 Q0	Q1 Q0	D1 D0
0	0 0	0 1	0 1
0	0 1	1 0	1 0
0	1 0	1 1	1 1
0	1 1	0 0	0 0
1	0 0	1 1	1 1
1	0 1	0 0	0 0
1	1 0	0 1	0 1
1	1 1	1 0	1 0



(3)





(4)