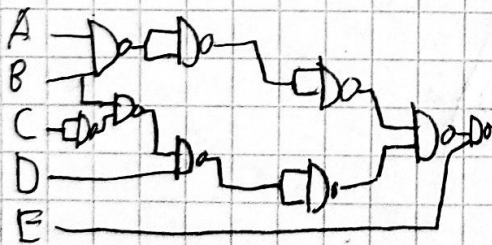


4. $Y_1 = AB + B\bar{C}D + E$



6.

AB \ CD	00	01	11	10
00	1	0	1	0
01	0	0	0	0
11	0	0	0	1
10	1	0	0	1

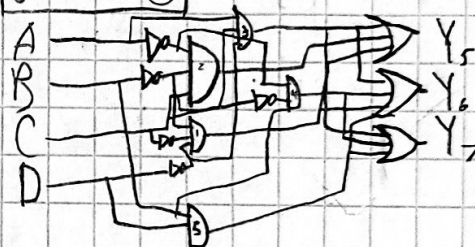
$\bar{B}\bar{C}\bar{D} + \bar{A}\bar{B}C + A\bar{C}\bar{D}$

AB \ CD	00	01	11	10
00	1	0	0	0
01	1	0	1	0
11	0	1	1	1
10	1	0	0	1

$\bar{B}\bar{C}\bar{D} + A\bar{C}\bar{D} + \bar{A}B\bar{C} + BD$

AB \ CD	00	01	11	10
00	0	0	0	0
01	1	1	1	0
11	0	1	1	1
10	0	0	0	1

$A\bar{C}\bar{D} + \bar{A}B\bar{C} + BD$



Y_3

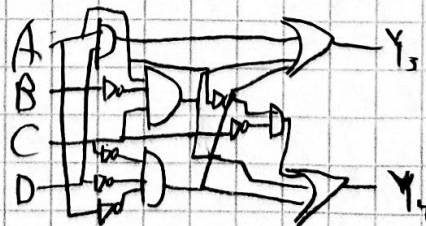
AB \ CD	00	01	11	10
00	1	0	0	0
01	1	0	0	0
11	1	1	0	0
10	1	1	1	1

Y_4

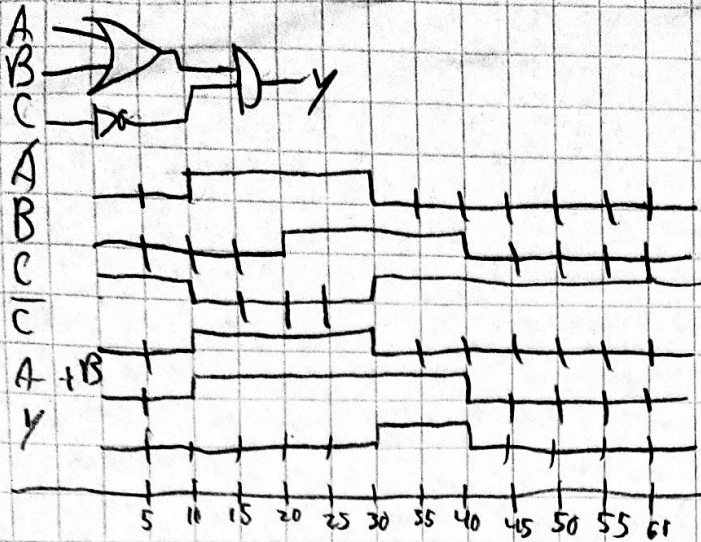
AB \ CD	00	01	11	10
00	1	0	1	1
01	1	0	1	1
11	1	0	0	0
10	0	0	1	1

$AD + \bar{C}\bar{D}\bar{A} + \bar{A}BC$

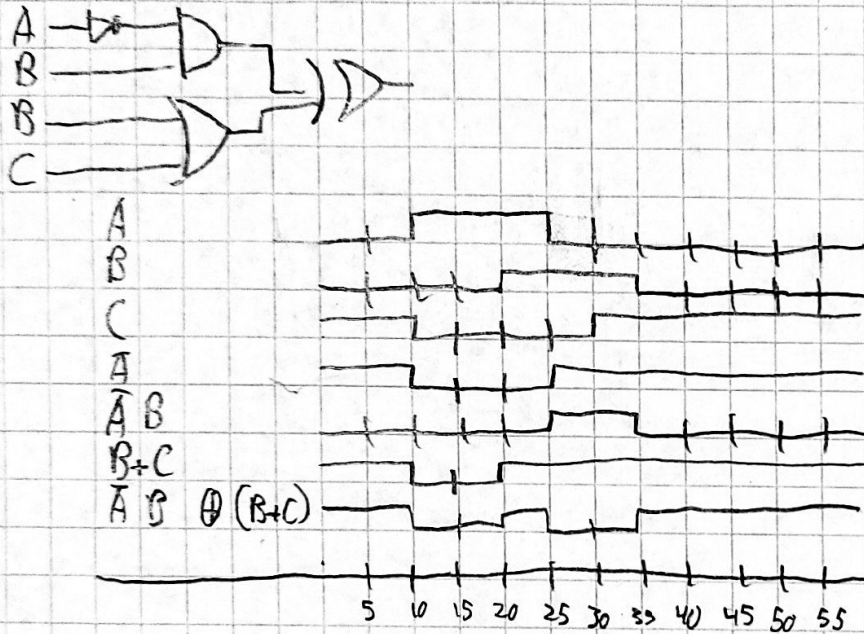
$\bar{C}\bar{D}\bar{A} + \bar{C}\bar{A} + A\bar{B}C$



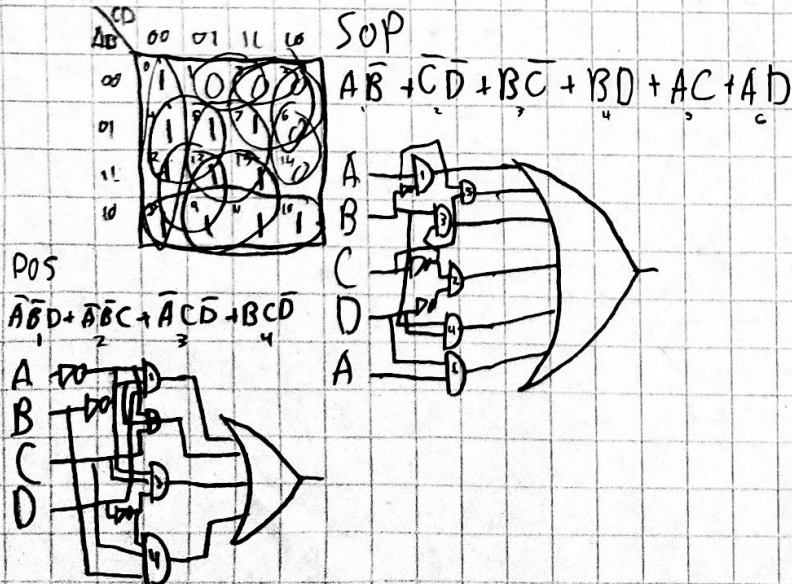
7.



8.



9.



10. a) 1

b) 1

c) 1

A

B

C

D

