

cd \ ab	00	01	11	10
00	1	1	-	0
01	1	1	0	1
11	0	0	-	1
10	0	1	0	0

$$\rightarrow \sum m(0,1,2,3,4,7,12) \cdot D(c,10)$$

-2 for missed EPIs

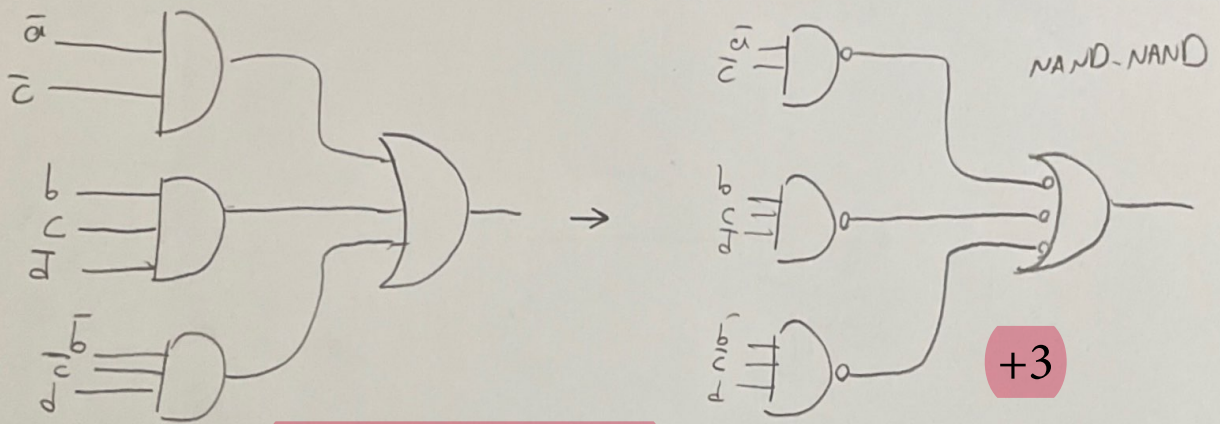
$$EPI, PI \Rightarrow \bar{a}\bar{c}, \bar{b}\bar{c}d, bcd$$

+3

-2 for missed PIs

$$\text{sop} \rightarrow \bar{a}\bar{c} + bcd + \bar{b}\bar{c}d$$

+4



-2 for did not change gates

+3

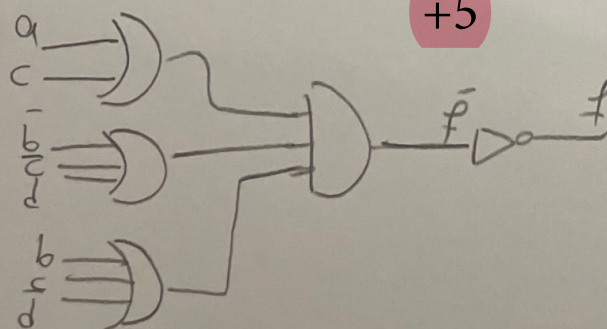
$$F(a,b,c,d) = \prod M(5,6,7,10,11,12,13) \cdot D(c,10) \rightarrow$$

$$F'(a,b,c,d) = \prod M(0,1,2,3,4,7,12) \cdot D(c,10) \rightarrow$$

cd \ ab	00	01	11	10
00	0	0	-	-
01	1	0	-	0
11	-	-	-	0
10	-	0	-	-

$$\rightarrow \bar{F} = (a+c) \cdot (\bar{b} + \bar{c} + d) \cdot (b + c + \bar{d})$$

+5



ادام

✓ 2	(0,1) 1	(2,1,1,2) (1,5)
✓ 1	(0,2) 2	(0,1,1,2) (1,2)
✓ 2		(2,1,1,1) (1,8)
✓ 2	(1,2) 2	(2,2,1,2) (1,1)
✓ 2	(1,2) 2	(2,2,2,2) (2,1)
✓ 4	(1,4) 8	
✓ 9	(2,2) 1	(2,2,2,4) (2,5)
✓ 12	(2,4) 2	(2,4,4,2) (2,2)
✓ 10	(4,1) 8	
	(12,10) 1	

+3

-5 for wrong calculation in third column

-12 for did not write PIs and F and Table