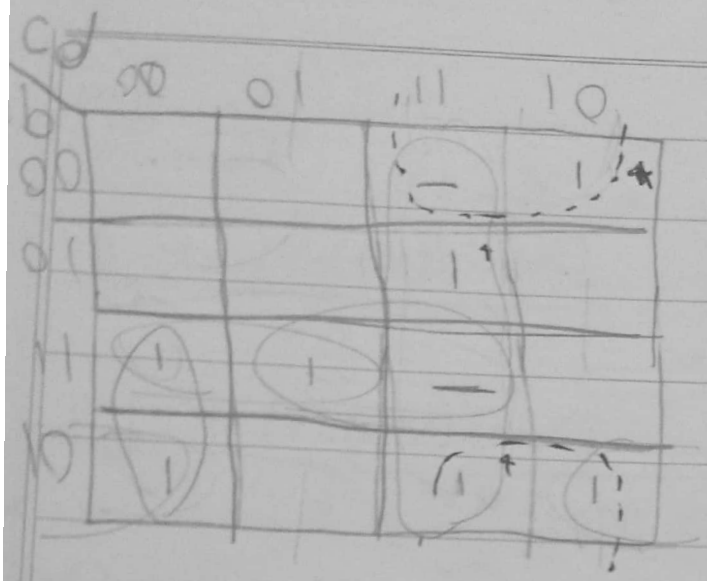
Note book

Subject

Year: Month: Date:



$$f(a,b,c,d) = \sum m(2,7,8,10,11,12,13) + d(3,15)$$

+6

+1

-1

+2

(SOP) => $f(a,b,c,d) = b'c + cd + abc' + ab'd'$

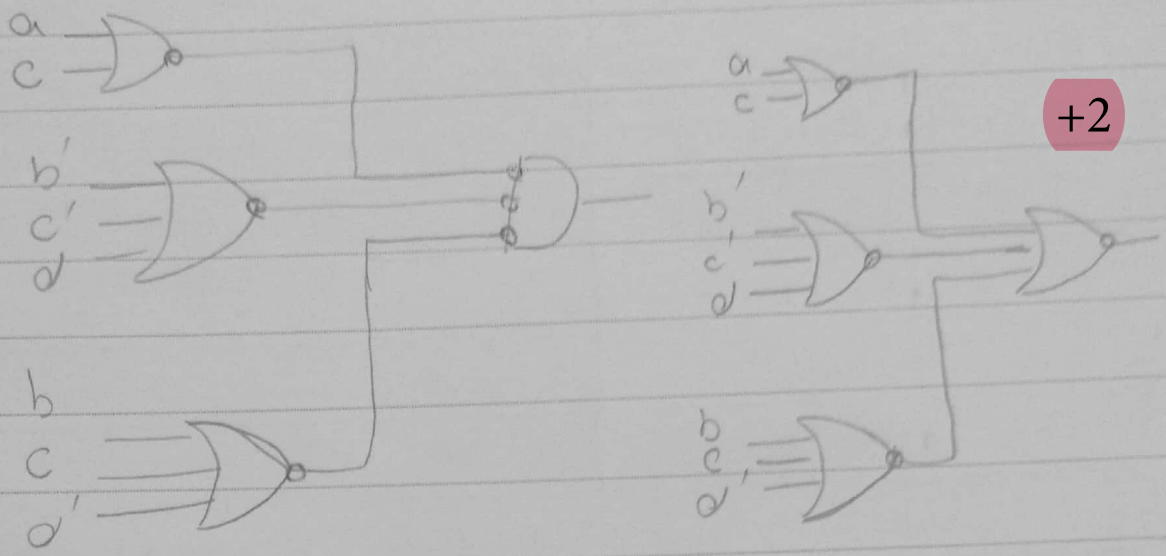
(POS) => $f(a,b,c,d) = (a+c)(b'+c'+d)(b+c+d')$

-4 for missed other Fs

Note book

Year: Month: Date:

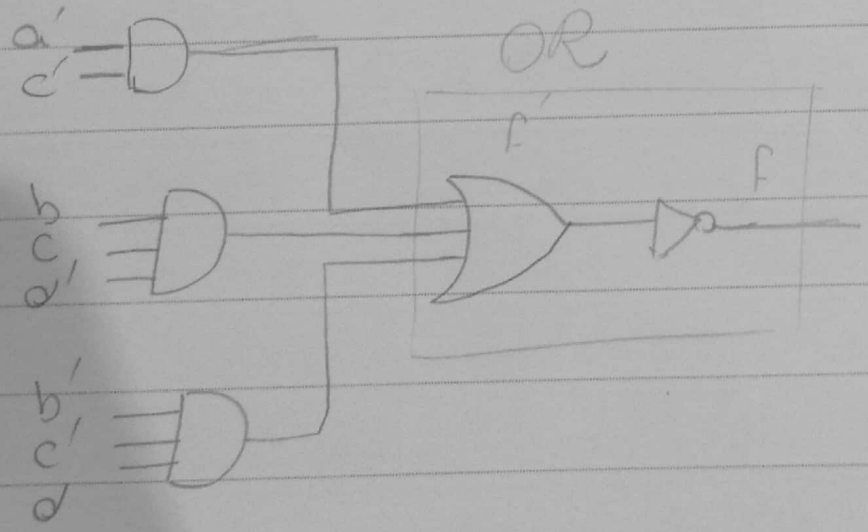
$f(a,b,c,d) = (a+c)(b'+c'+d)(b+c+d')$ +3 NOR-NOR



+2

AND-OR-INV

$f(a,b,c) = ac' + bcd' + b'c'd$ +3



+2

Note book

Subject

Year Month Date

2 0010	(2,3) 1	(2,3,10,11) (4,8)	+8
8 1000	(2,10) 8	(2,3,10,11) (8,7)	
3 0011	(8,10) 2 → 1000	(3,7,11,15) (4,8)	
10 1010	(8,12) 4 → 1000	(3,11,7,15) (8,4)	
12 1100	(3,7) 4		
7 0111	(3,11) 8		
11 1011	(10,11) 1		
13 1101	(12,13) 1 → 1100		
15 1111	(7,15) 8		
	(11,15) 4		
	(13,15) 2 → 1101		

EPI

b'c

cd

ac'd'

abd

EPI

b'c

cd

ab'd'

abc'

+6

PI

ab'd' (8,10)

ac'd' (8,12)

abc' (12,13)

abd (13,15)

b'c (2,3,10,11)

cd (3,7,11,15)

+6

	2	3	7	8	10	11	12	13	15
ab'd' (8,10)				x	x				
ac'd' (8,12)				x			x		
abc' (12,13)							x	x	
abd (13,15)								x	x
b'c (2,3,10,11)	x	x			x	x			
cd (3,7,11,15)		x	x				x		x
	x		x		x				x