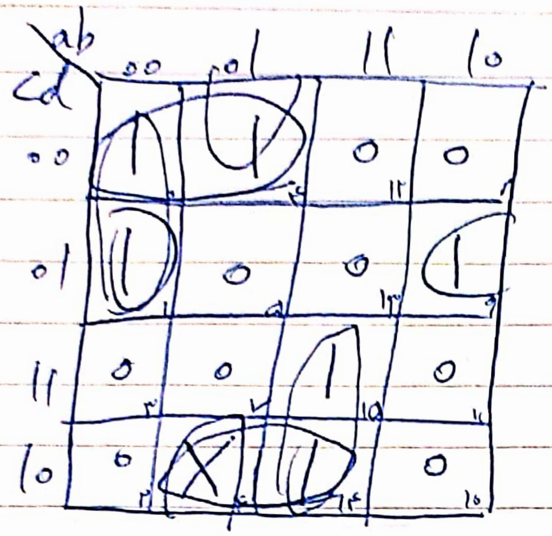
No.

Date.

$f(a,b,c,d) = \sum m(0,1,4,8,9,14,15) \cdot D(6)$ الف-۲)



PI	EPI
$a'c'd'$	$b'c'd$
$a'bd'$	abc
$a'b'c'$	
abc	
bcd'	
$b'c'd$	

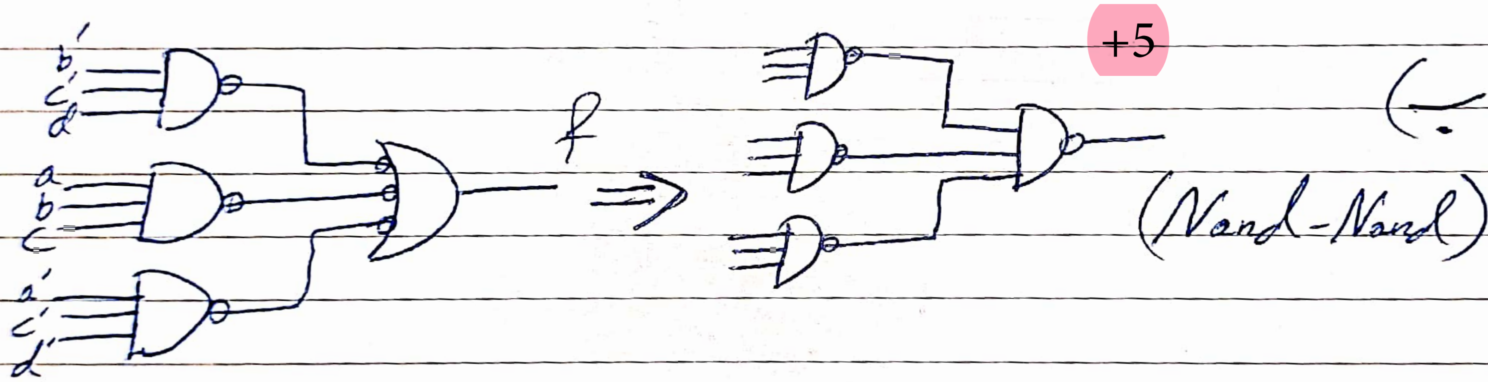
+2

+6

$f = \underbrace{b'c'd + abc}_{EPI} + \underbrace{a'c'd'}_{PI}$

+3

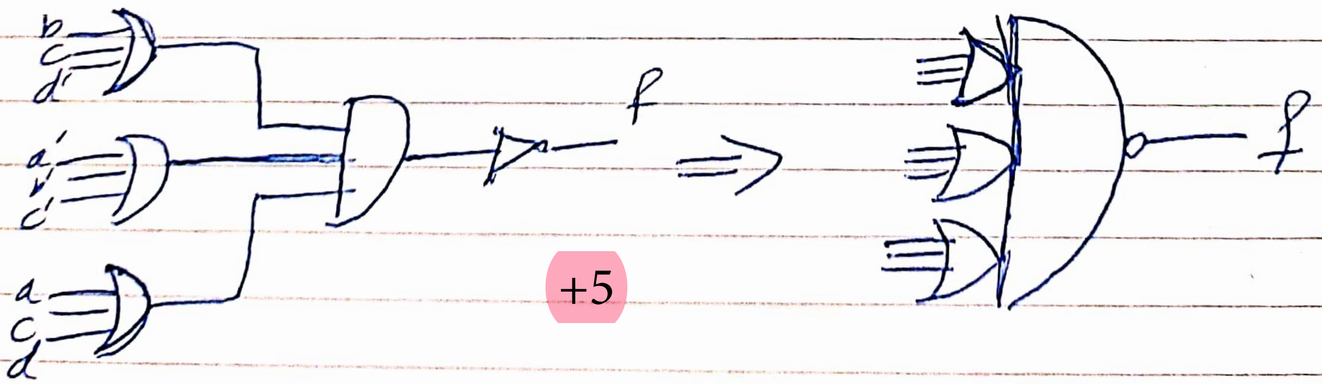
ب)



(Nand-Nand)

+5

$f'(a,b,c,d) = (b+c+d') \cdot (a'+b'+c') \cdot (a+c+d)$



+5

+8

+7

-6

✓ 0000	(000-)	
✓ 0001	(0-00)	
✓ 0100	(-001)	
✓ 0110	(01-0)	
✓ 1001	(-110)	
✓ 1110	(111-)	
✓ 1111		

PI	0	1	5	9	13	15
a'b'c'	X	X				
(a'c'd')	X		X			
EPI (b'c'd)		X		X		
a'bd'			X			
bcd'					X	
EPI (abc)					X	X
	✓	✓	✓	✓	✓	

$f = abc + b'c'd + a'c'd'$