

$\Rightarrow F = B'C = (A+A')B'C = AB'C + A'B'C = CBA' + CBA' = \Sigma(4,5)$   
 101 100

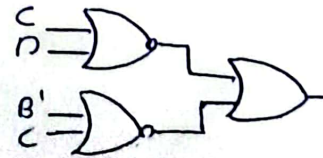
ABC	D	F	
0	0	0	1
0	0	0	1
0	0	1	0
0	0	1	0
0	1	0	0
0	1	0	1
0	1	1	0
0	1	1	0
1	0	0	1
1	0	0	1
1	0	1	0
1	0	1	0

Nor-or  $\Rightarrow$  maxterm  $F'$

$F'$ :

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

$F' = (C+D)(B'+C)$



Nand-Nand  $\Rightarrow$  Minterm F

(4)

$$F(A,B,C,D) = \Sigma(4,5,6,7,9,10,11,12,14) + d(0,1,8)$$

0 ✓	(0,1) ✓	(0,1,4,5)	PI7
1 ✓	(0,4) ✓	(0,1,8,9)	PI6
4 ✓	(0,8) ✓	(0,4,8,12)	PI5
8 ✓	(1,5) ✓	(4,5,6,7)	PI4
5 ✓	(1,9) ✓	(4,6,12,14)	PI3
6 ✓	(4,5) ✓	(8,9,10,11)	PI2
9 ✓	(4,6) ✓	(8,10,12,14)	PI1
10 ✓	(4,12) ✓		
12 ✓	(8,9) ✓		
7 ✓	(8,10) ✓		
11 ✓	(8,12) ✓		
14 ✓	(5,7) ✓		
	(6,7) ✓		
	(6,14) ✓		
	(9,11) ✓		
	(10,11) ✓		
	(10,14) ✓		
	(12,14) ✓		

PI \ $\Sigma$	4	5	6	7	9	10	11	12	14
1						✓		✓	✓
* 2					✓	✓	✓		
* 3	✓		✓					✓	✓
* 4	✓	✓	✓	✓					
<del>5</del>	✓							✓	
<del>6</del>					✓				
<del>7</del>	✓	✓							
	✓	✓	✓	✓	✓	✓	✓	✓	✓

PI2

1	0	0	0
1	0	0	1
1	0	1	0
1	0	1	1

AB'

PI3

0	1	0	0
0	1	1	0
1	1	0	0
1	1	1	0

BD'

PI4

0	1	0	0
0	1	0	1
0	1	1	0
0	1	1	1

A'B

