

1.  $f(A, B, C) = AB' + A'C + BC$

真值表:

	10-	0-1	-11	
	A	B	C	$f(A, B, C)$
0	0	0	0	0
1	0	0	1	1
2	0	1	0	0
3	0	1	1	1
4~5	1	0	-	1
6	1	1	0	0
7	1	1	1	1

最小项范式:  $f(A, B, C) = \sum m(1, 3, 4, 5, 7)$

最大项范式:  $f(A, B, C) = \prod M(0, 2, 6)$

2. 真值表:

	A	B	C	D	$f(A, B, C, D)$
--	---	---	---	---	-----------------

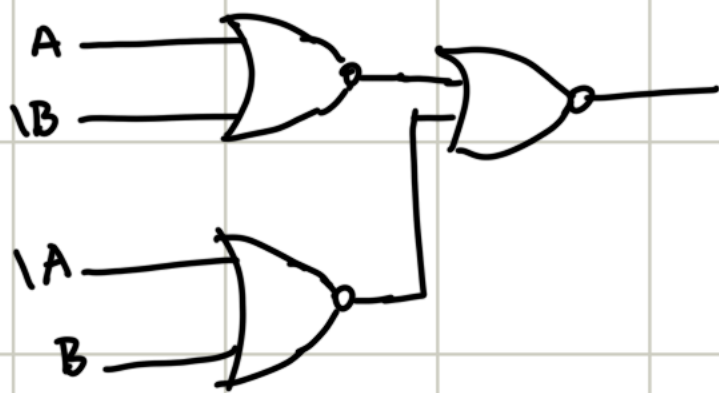
0	0	0	0	0	1
1	0	0	0	1	0
2	0	0	1	0	1
3	0	0	1	1	0
4~5	0	1	0	-	1
6	0	1	1	0	1
7	0	1	1	1	0
8	1	0	0	0	1
9	1	0	0	1	0
10	1	0	1	-	0
11~15	1	1	-	-	0

} (无效)

最小项:  $f(A, B, C, D) = \sum m(0, 2, 4, 5, 6, 8)$

最大项:  $f(A, B, C, D) = \prod M(1, 3, 7, 9, 10 \sim 15)$

3.  $F = (A+B')(A'+B)$



4.

