

$O_5: AB$

CD	00	01	11	10
00	1	0	0	1
01	0	0	0	1
11	1	1	1	1
10	1	0	1	1

$$F(O_5) = \bar{A}\bar{B}\bar{D} + A\bar{B} + CD + AC$$

$O_6: AB$

CD	00	01	11	10
00	1	0	0	0
01	1	1	0	1
11	0	1	1	1
10	1	1	1	1

$$F(O_6) = \bar{A}\bar{B}\bar{D} + \bar{B}\bar{C}D + \bar{A}\bar{C}D + \bar{A}BC + AC$$

$O_7: AB$

CD	00	01	11	10
00	0	0	1	1
01	1	1	0	1
11	1	0	1	1
10	1	1	1	1

$$F(O_7) = \bar{A}\bar{C}D + A\bar{C}D + \bar{B}C + \bar{C}D + \bar{A}B + AC$$

	C	D	A	B
0	0	0	0	0
1	0	0	0	1
2	0	0	1	0
3	0	0	1	1
4	0	1	0	0
5	0	1	0	1
6	0	1	1	0
7	0	1	1	1
8	1	0	0	0
9	1	0	0	1
<del>F</del>	1	0	1	0
<del>E</del>	1	0	1	1
D	1	1	0	0
C	1	1	0	1
B	1	1	1	0
A	1	1	1	1

$O_1:$

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

$$F(O_1) = \bar{A}\bar{B}\bar{D} + \cancel{A\bar{B}D} + A\bar{C} + \bar{A}BD + \bar{C}\bar{D} + ABCD$$

$O_2:$

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

$$F(O_2) = \bar{C}\bar{D} + \bar{A}\bar{D} + ABD + \bar{A}\bar{B}CD$$

$O_3:$

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

$$F(O_3) = \bar{A}\bar{C} + \bar{A}\bar{D} + \bar{A}\bar{B} + AD + AB\bar{C}\bar{D}$$

$O_4:$

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

$$F(O_4) = \bar{C}\bar{D}\bar{B} + AB\bar{D} + A\bar{B}D + \bar{A}\bar{B}\bar{C}\bar{D} + \bar{A}C$$