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$$1. F = ABCD + ABC\bar{D} + A\bar{B}CD + A\bar{B}C\bar{D} + AB\bar{C}D + \bar{A}BC\bar{D} + \bar{A}\bar{B}C\bar{D} + \bar{A}\bar{B}CD$$

2.

	A	\bar{A}
C	1	1
\bar{C}	0	1

3.

\overline{AB}				
CD	00	01	11	10
00	1		1	1
01		1	1	1
11	1	1	1	1
10	1		1	1

4. (1)

\overline{AB}				
CD	00	01	11	10
00	1			1
01	1	1	1	1
11		1	1	1
10	1			

由卡诺图

F 表达式为

$$F = BD + \bar{C}D + \bar{A}\bar{B}\bar{D} + \bar{B}C\bar{D} + A\bar{B}D$$

12)

\overline{AB}				
CD	00	01	11	10
00		1	1	
01		1		
11				
10		1	1	

由卡诺图

F 表达式为

$$F = B\bar{D} + \bar{A}B\bar{C}$$