

A	B	C	D	A'	D'	A'B	ABC	BCD'	F
0	0	0	0	1	1	0	0	0	0
0	0	0	1	1	0	0	0	0	0
0	0	1	0	1	1	0	0	0	0
0	0	1	1	1	0	0	0	0	0
0	1	0	0	1	1	1	0	0	1
0	1	0	1	1	0	1	0	0	1
0	1	1	0	1	1	1	0	1	1
0	1	1	1	1	0	1	0	0	1
1	0	0	0	0	1	0	0	0	0
1	0	0	1	0	0	0	0	0	0
1	0	1	0	0	1	0	0	0	0
1	0	1	1	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0
1	1	0	1	0	0	0	0	0	
1	1	1	0	0	1	0	1	1	1
1	1	1	1	0	0	0	1	0	1

$F = \overline{A}B + ABC + BCD'$
 $0 + 0 + 0$ else
 $\checkmark 1 + 0 + 0$ 1' when (A=0' AND B=1') else
 $\checkmark 0 + 1 + 0$ 1' when (A=1' AND B=1' AND C=1') else
 $\checkmark 0 + 0 + 1$ 1' when (B=1' AND C=1' AND D=0') else
 1' ;