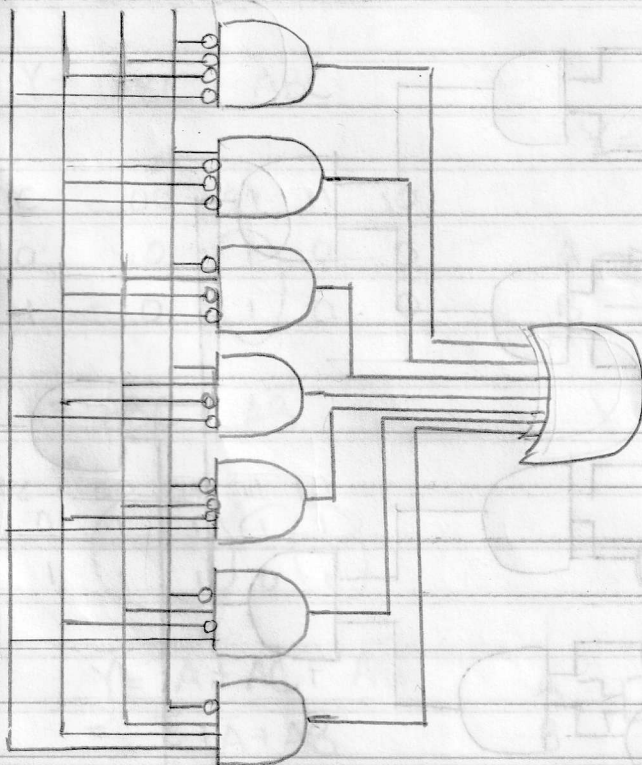


4(2)

A	B	C	D	F	minterm	maxterm
0	0	0	0	1	$\bar{A}\bar{B}\bar{C}\bar{D}$	$A+B+C+D$
0	0	0	1	1	$\bar{A}\bar{B}\bar{C}D$	$A+B+C+\bar{D}$
0	0	1	0	1	$\bar{A}\bar{B}C\bar{D}$	$A+B+\bar{C}+D$
0	0	1	1	1	$\bar{A}\bar{B}CD$	$A+B+\bar{C}+\bar{D}$
0	1	0	0	0	$\bar{A}B\bar{C}\bar{D}$	$A+\bar{B}+C+D$
0	1	0	1	0	$\bar{A}B\bar{C}D$	$A+\bar{B}+C+\bar{D}$
0	1	1	0	0	$\bar{A}BC\bar{D}$	$A+\bar{B}+\bar{C}+D$
0	1	1	1	0	$\bar{A}BCD$	$A+\bar{B}+\bar{C}+\bar{D}$
1	0	0	0	1	$A\bar{B}\bar{C}\bar{D}$	$\bar{A}+B+C+D$
1	0	0	1	0	$A\bar{B}\bar{C}D$	$\bar{A}+B+C+\bar{D}$
1	0	1	0	1	$A\bar{B}C\bar{D}$	$\bar{A}+B+\bar{C}+D$
1	0	1	1	0	$A\bar{B}CD$	$\bar{A}+B+\bar{C}+\bar{D}$
1	1	0	0	0	$AB\bar{C}\bar{D}$	$\bar{A}+\bar{B}+C+D$
1	1	0	1	0	$AB\bar{C}D$	$\bar{A}+\bar{B}+C+\bar{D}$
1	1	1	0	1	$ABC\bar{D}$	$\bar{A}+\bar{B}+\bar{C}+D$
1	1	1	1	0	$ABCD$	$\bar{A}+\bar{B}+\bar{C}+\bar{D}$

SOP Form:  $V = F(A,B,C,D) = \bar{A}\bar{B}\bar{C}\bar{D} + \bar{A}\bar{B}\bar{C}D + \bar{A}\bar{B}C\bar{D} + \bar{A}\bar{B}CD + \bar{A}B\bar{C}\bar{D} + \bar{A}B\bar{C}D + \bar{A}BC\bar{D} + \bar{A}BCD$   
 $+ AB\bar{C}\bar{D} + ABC\bar{D} = \sum(0,1,2,3,8,10,14)$

A B C D



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