

전자공학과 202021023 안준영
 정기현 교수님 논리회로 과제 4-1

$$F(W, X, Y, Z) = \sum_{wxyz} (2, 6, 7, 8, 12, 13)$$

	W	X	Y	Z	F
0	0	0	0	0	0
1	0	0	0	1	0
2	0	0	1	0	1
3	0	0	1	1	0
4	0	1	0	0	0
5	0	1	0	1	0
6	0	1	1	0	1
7	0	1	1	1	1
8	1	0	0	0	1
9	1	0	0	1	0
10	1	0	1	0	0
11	1	0	1	1	0
12	1	1	0	0	1
13	1	1	0	1	1
14	1	1	1	0	0
15	1	1	1	1	0

$\begin{matrix} YZ \\ \backslash \\ WX \end{matrix}$	00	01	11	10
00			1	
01			1	1
11		1		
10	1	1		

WXY' (blue arrow pointing to cell 11, 01)
 $Y'ZW$ (orange arrow pointing to cell 01, 10)
 $YZ'W'$ (orange arrow pointing to cell 10, 00)
 $W'XY$ (blue arrow pointing to cell 11, 10)

$$YZ'W' + W'XY + WXY' + Y'ZW$$