

$F_2 = \prod (1, 2, 3, 12, 13) = \sum (0, 4, 5, 6, 7, 8, 9, 10, 11, 14, 15)$
 → minimum 16 pozycji $\Rightarrow \log_2 16 = 4$ bit.
 → produkt 4 MAX terminów \Rightarrow Not. 0-ów w tabeli
 4 zmienne
 4 "osłowoje"

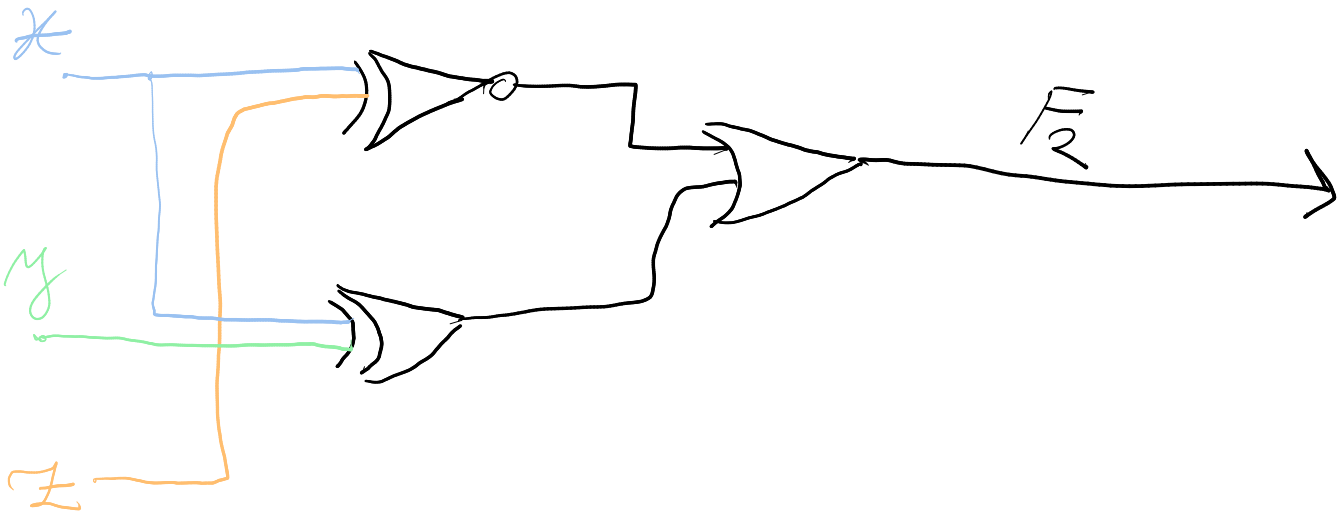
x	y	z	w	F_2
0	0	0	0	1
0	0	0	1	0
0	0	1	0	0
0	0	1	1	0
0	1	0	0	1
0	1	0	1	1
0	1	1	0	1
0	1	1	1	1
1	0	0	0	1
1	0	0	1	1
1	0	1	0	1
1	0	1	1	0
1	1	0	0	0
1	1	0	1	1
1	1	1	0	1
1	1	1	1	1

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

		z			
		00	01	11	10
x \ y	00	1			
	01	1	1	1	1
	11			1	1
	10	1	1	1	1

$$\begin{aligned}
 & \bar{x}\bar{z} + \bar{x}y + xz + x\bar{y} \\
 & (x+z)(x+\bar{y})(\bar{x}+\bar{z})(\bar{x}+y)
 \end{aligned}$$

$$x \oplus z + x \oplus y$$



$$d) F_d(A, B, C, D) = \Sigma(0, 2, 4, 5, 8, 14, 15) + \pi(7, 10, 13)$$

		C			
		00	01	11	10
A \ B	00	1			1
	01	1	1	1	
A \ B	11		1	1	1
	10	1			1

$$\bar{A}\bar{B}\bar{D} + \bar{A}\bar{C}\bar{D} + DB + AC\bar{D} + A\bar{B}\bar{D}$$

$$e) F_e(A, B, C, D) = \Sigma(4, 6, 7, 8, 12, 15) + \pi(2, 3, 5, 10, 11, 14)$$

		C			
		00	01	11	10
A \ B	00			1	1
	01			1	1
A \ B	11	1	1	1	1
	10 <td>1</td> <td>1</td> <td>1</td> <td>1</td>	1	1	1	1

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

$$f) F_f(A, B, C, D) = \Sigma(1, 2, 4, 5, 6, 9, 10, 13, 14) + \pi(7)$$

		C			
		00	01	11	10
A \ B	00		1		1
	01	1	1	1	1
A \ B	11	1	1	1	1
	10	1		1	1

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