

	W	X	Y	Z	84-2-1	A	BCD			D
0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	1	<0	X	X	X	X	X
2	0	0	1	0	<0	X	X	X	X	X
3	0	0	1	1	<0	X	X	X	X	X
4	0	1	0	0	4	0	1	0	0	0
5	0	1	0	1	3	0	0	1	1	1
6	0	1	1	0	2	0	0	1	0	0
7	0	1	1	1	1	0	0	0	1	1
8	0	0	0	0	8	1	0	0	0	0
9	1	0	0	1	7	0	1	1	1	1
10	1	0	1	0	6	0	1	1	0	0
11	1	0	1	1	5	0	1	0	1	1
12	1	1	0	0	12 > 9	X	X	X	X	X
13	1	1	0	1	11 > 9	X	X	X	X	X
14	1	1	1	0	10 > 9	X	X	X	X	X
15	1	1	1	1	9	1	0	0	1	1

Zbudujemy mapy Karnaugh dla A, B, C, D:

W X \ YZ	00	01	11	10
00	0	X	X	X
01	0	0	0	0
11	X	X	1	X
10	1	0	0	0

$$A = WX + \bar{W}\bar{Y}\bar{Z}$$

$$W(X + \bar{Y}\bar{Z})$$

W X \ YZ	00	01	11	10
00	0	X	X	X
01	0	0	0	0
11	X	X	0	X
10	0	1	1	1

$$B = \bar{W}X\bar{Z} + \bar{X}Z + \bar{X}Y$$

$$\bar{W}X\bar{Z} + \bar{X}(Z + Y)$$

$$X\bar{Y}\bar{Z}$$

W X \ YZ	00	01	11	10
00	0	X	X	X
01	0	1	0	1
11	X	X	0	X
10	0	1	0	1

$$C = \bar{Y}Z + Y\bar{Z}$$

$$\equiv Y \wedge Z$$

W X \ YZ	00	01	11	10
00	0	X	X	X
01	0	1	1	0
11	X	X	1	X
10	0	1	1	0

$$D = Z$$