Kacper Najuter 2195y

Zadanie 1 $y = \Sigma(1,2,6,8,10,11,12;(4,14))$

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

AB \ CD	00	01	11	10
00	1	1	0	1
01	-	0	0	1
11	1	0	0	-
10	1	0	1	1

A B C D
0 0 0 0
0 0 1 0
0 1 1 0
0 1 0 0
1 1 0 0
1 1 1 0
1 0 0 0
1 0 1 0

$\bar{D}$

A B C D
0 0 0 0
0 0 0 1

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

A B C D
1 0 1 1
1 0 1 0

$A\bar{B}C$

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

$A = 2x(1x)$ $B = 2x(2x)$ $C = 2x(1x)$ $D = 1x(1x)$

ABC = 000

D \	0	1
	1	1

$u_0 =$

ABC = (001)

D \	0	1
	1	0

$u_1 =$

ABC = (010)

D \	0	1
	-	0

u_2

ABC = (011)

D \	0	1
	1	0

u_3

ABC = 100

D \	0	1
	1	0

$u = \bar{D}$

ABC = (101)

D \	0	1
	1	1

$u = 5$

ABC = 110

D \	0	1
	1	0

u_6

ABC (111)

D \	0	1
	-	0

u_7

$u_0 = 1$

$u = \bar{D}$

$u_1 = \bar{D}$

$u_5 = 1$

$u_2 = 0$

$u_6 = \bar{D}$

$u_3 = \bar{D}$

$u_7 = 0$

Tutorial 2

$Y = \Sigma [0,3,5,6,12,15 ; d\ 1,2,4,7,8,11,13,14]$

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

AB \ CD	00	01	11	10
00	1	–	1	–
01	–	1	–	0
11	1	–	1	–
10	–	0	–	0

A	B	C	D
0	0	0	0
0	0	0	1
0	0	1	0
0	1	0	0
0	1	0	1
Ā		C̄	

A	B	C	D
1	1	0	0
1	1	0	1
1	1	1	0
1	1	1	1
A	B		

$y = \bar{A}\bar{C} + \bar{A}\bar{B} + AB$

A – 3x(2x) B – 2x(1x) C – 1x(1x) D – 0

AB(00)

CD \	00	01	11	10
	1	–	1	–

$U_0 = \bar{C} + C$

AB(01)

CD \	00	01	11	10
	–	1	–	0

$U_0 = \bar{C}$

AB(10)

CD \	00	01	11	10
	–	0	–	0

AB(11)

CD \	00	01	11	10
	1	–	1	–

$U_0 = \bar{C} + C$