Ответ 1

а) 13

13	
6	1
3	0
1	1
0	1

$13_{10} = 1101_2$.

256 128 64 32 16 8 4 2 1

в) 289

289	
144	1
72	0
36	0
18	0
9	0
4	1
2	0
1	0
0	1

$289_{10} = 100100001_2$

с) -27

27	
13	1
6	1
3	0
1	1
0	1

32 16 8 4 2 1

$27 = 11011$

00101

100101

-32 4 1

$-32+4+1 = -27$

$-27 = 100101$

Ответ 2

а) 10010

32 4 1

37_{10}

в) 1101111011

512 256 64 32 16 8 2 1

891_{10}

Ουμ 3

a) 1 1 0 0 0 1 1 0

-128 64 4 2

$-128+64+4+2$

$-64+4+2$

-58_{10}

b) 1 0 1 0 1 1 0 0 1

-256 64 16 2 1

$-256+64+16+8+1$

$-192+16+8+1$

$-176+8+1$

$-168+1$

-167_{10}

Ουμ 4)

0 0 0 1 0 1 1 0 0 1 1 0

+ 0 1 1 1 1 0 1 0 0 0 1 1 1

0 1 0 0 1 0 0 0 0 1 0 0 0 1

Ουμ 6

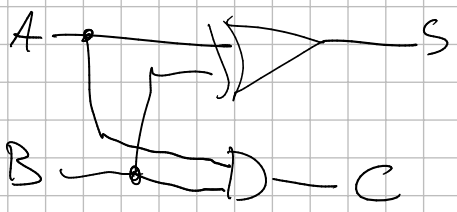
a	b	c	s
0	0	0	0
0	1	0	1
1	0	0	1
1	1	1	0

Ουμ 7

a	b	c	s
0	0	0	0
0	1	0	1
1	0	0	1
1	1	1	0

$(\bar{a}b)+(a\bar{b})=s$

$a\bar{b}=C$

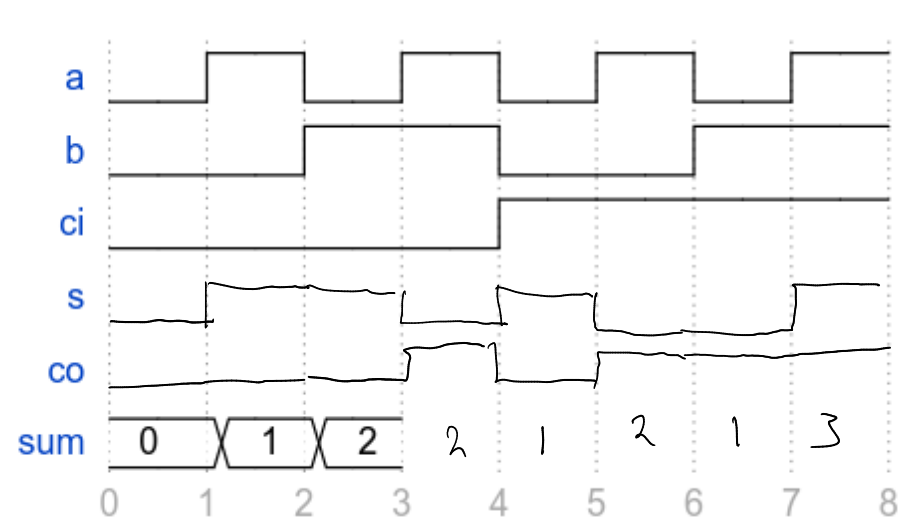


Ουμ 12

a	b	ci	co	s
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

13

Ουμ



Ουμ 14

a	b	c_i	c_0	s
0	0	0	0	0
0	0	1	0	1
0	1	0	0	1
0	1	1	1	0
1	0	0	0	1
1	0	1	1	0
1	1	0	1	0
1	1	1	1	1

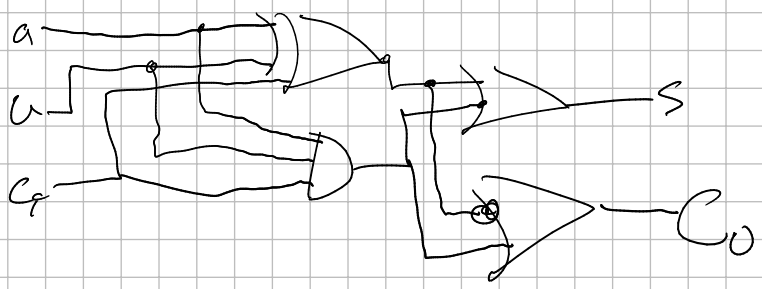
$s = \bar{a}\bar{b}c_i + \bar{a}b\bar{c_i} + a\bar{b}\bar{c_i} + abc_i$

$c_0 = \bar{a}bc_i + a\bar{b}c_i + ab\bar{c_i} + abc_i$

Ουμ 15

$s = \bar{a}\bar{b}c_i + \bar{a}b\bar{c_i} + a\bar{b}\bar{c_i} + abc_i$ XOR + AND

$c_0 = \bar{a}bc_i + a\bar{b}c_i + ab\bar{c_i} + abc_i$ NXOR + AND



04/09/16