$\sum(1,3,4,5)$

	A	B	C	y
0	0	0	0	0
1	0	0	1	1
2	0	1	0	0
3	0	1	1	1
4	1	0	0	1
5	1	0	1	1
6	1	1	0	0
7	1	1	1	0

$FCC = \overline{M_m} = \pi(0,2,6,7)$

$FCD = m(1,3,4,5) = \bar{A}\bar{B}C + \bar{A}BC + A\bar{B}\bar{C} + A\bar{B}C$

$FCC = M(0,2,6,7) = (\bar{A}+\bar{B}+\bar{C})(\bar{A}+B+\bar{C})(A+B+\bar{C})$

$(A+B+C)$

C \ AB	$\bar{A}\bar{B}$ 00	$\bar{A}B$ 01	AB 11	$A\bar{B}$ 10
0	0	0	0	1
1	1	1	0	1

$\bar{A}\bar{B} \; \bar{A}B$ → $\bar{A}C$; $A\bar{B}\bar{C} - A\bar{B}C$ → $A\bar{B}$

→ $y = \bar{A}C + A\bar{B}$

	00	01	11	10
00	1	1	1	1
01	1	1	1	1
11	1	0	0	1
10	1	0	0	1

→ mi se scrie pt. că se schimbă toate

$\bar{A}\bar{B}CD - \bar{A}\bar{B}C\bar{D}$ → $\bar{B}C$

$A\bar{B}CD - ABC\bar{D}$

	00	01	11	10
00	1	1	1	1
01	1	1	1	1
11	1	0	0	1
10	1	0	0	1

$\bar{B}C + \bar{B}\bar{C} + B\bar{C} = \bar{B}C + (B \oplus C)$

$A\bar{B} + \bar{A}B = A \oplus B$ → XOR $\boxed{=1}$

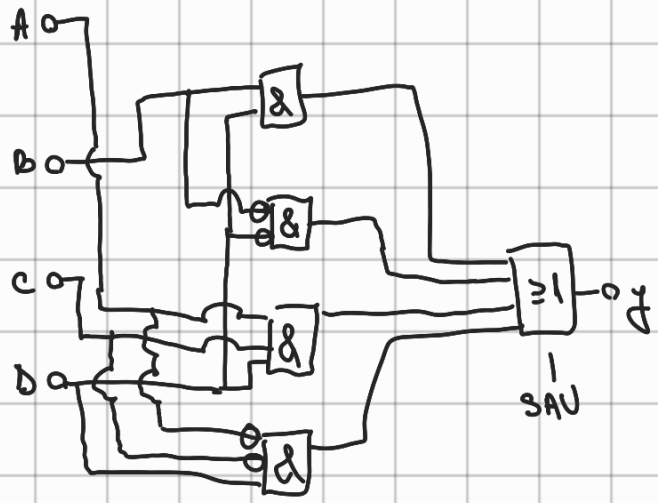
	00	01	11	10
00	1	0	0	1
01	1	1	1	0
11	0	1	1	1
10	1	0	0	1

cuic 2: $\bar{B}C\bar{D} + \bar{B}CD = \bar{B}C(C+\bar{C})$

cuic 4: $\bar{B}\bar{D}$

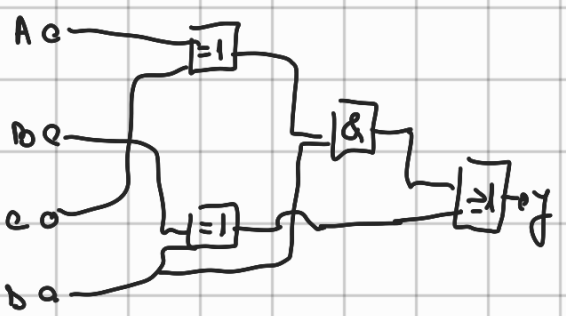
$\bar{A}\bar{C}D + A\bar{C}D = D\bar{C}(A+\bar{A})$ — BD

→ $B\bar{D} + \bar{B}\bar{D} + ACD + \bar{A}CD$



$BD + \overline{BD} + ACD + \overline{ACD}$

$B \oplus D \qquad D(\overline{AC} + AC) = D(A \oplus C)$



≥1 → +

& → ·

=1 → ⊕

$y : \Sigma(0,1,2,3,4,6,8,9,10,11)$

	A	B	C	D	y
0	0	0	0	0	1
1	0	0	0	1	1
2	0	0	1	0	1
3	0	0	1	1	1
4	0	1	0	0	1
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	1
10	1	0	1	0	1
11	1	0	1	1	1
12	1	1	0	0	0
13	1	1	0	1	0
14	1	1	1	0	0
15	1	1	1	1	0

$FCD = \overline{ABCD} + \overline{ABCD} + \overline{ABC\bar{D}} + \overline{AB\bar{C}D} + \overline{A}BC\bar{D} + \bar{A}BC\bar{D}$
$+ A\overline{BCD} + A\overline{BC}D + A\bar{B}C\bar{D} + AB\bar{C}D$

$FCC = (\bar{A}+B+\bar{C}+D)(\bar{A}+B+C+D)(A+B+\bar{C}+\bar{D})$
$(A+B+\bar{C}+D)(A+B+C+\bar{D})(A+B+C+D)$
$= \Pi(5,7,12,13,14,15)$

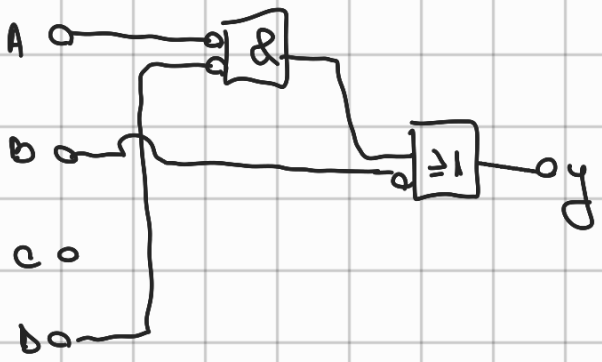
	00	01	11	10
00	1	1	0	1
01	1	0	0	1
11	1	0	0	1
10	1	1	0	1

$\overline{ABCD} \cdot \bar{A}B\bar{C}\bar{D} - \overline{AB\bar{C}D} \cdot \bar{A}BC\bar{D} \rightarrow \overline{AD}$

$\overline{\bar{A}BCD} - \overline{\bar{A}BCD} - \overline{\bar{A}B\bar{C}D} - \bar{A}BCD \rightarrow \bar{B}D$

$\rightarrow \overline{BD}$

$= \overline{AD} + \bar{B}(D+\bar{D}) = AD + \bar{B}$



Adunări și scăderi

```
  1 1 1 1 1 1 1
  1 1 0 1 0 1 0 1 +      1+4+16+64+128 = 213
  1 1 1 0 1 0 1 1        1+2+8+32+64+128 = 235
-------------------      ---------------------
1 1 1 0 0 0 0 0 0          448
```

256 128 64 → 320+128 = 448

```
  1 0 1 0 . 0 1 0 +
    1 0 . 1 1 1
-----------------
  1 1 0 1 . 0 0 1
```

```
  1 1 0 1 1 0 1 -
  1 0 0 1 1 1 1
-----------------
```

→ transformăm: 0 1 1 0 0 0 0 (complement față de 2)

```
  0 1 1 0 0 0 0 +
              1
-----------------
  0 1 1 0 0 0 1
```

← îl adunăm la primul termen

```
  1 1 0 1 1 0 1 +
  0 1 1 0 0 0 1
-----------------
1 0 0 1 1 1 1 0
```