

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

$$Y = \bar{A}\bar{B}C + A\bar{B}C + ABC$$

$$Y = (\bar{A}+B+C)(A+B+C)(A+B+\bar{C})$$

$$\bar{A}\bar{B}C \quad (B\bar{C}A)$$

$$Y_{min. form} = (A+B)(B+C)(A+C)$$

Max term 3 stage:  
- II - 320, 207, 5, II

2 variables

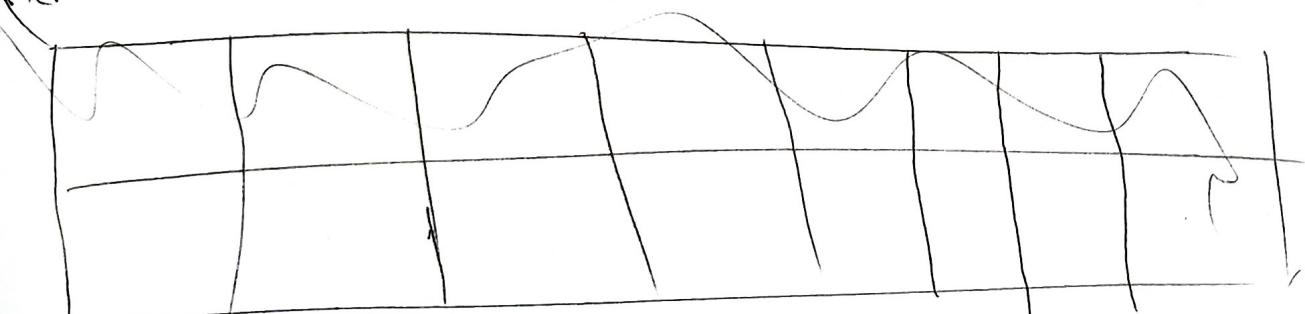
A	B	0	1
0	$\bar{A}\bar{B}$	$\bar{A}B$	
1	$A\bar{B}$	$AB$	

00	01
10	11

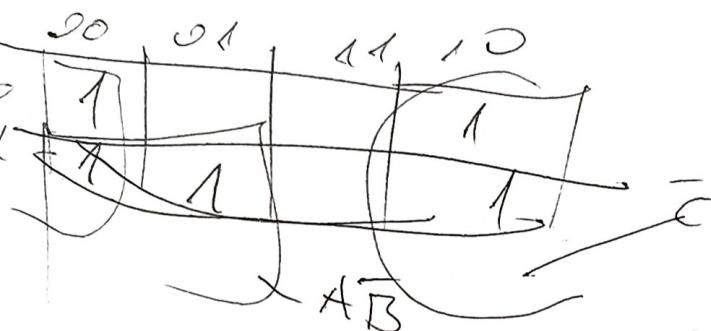
3 variables

B	000	01	11	10
0	000	001	011	<del>100</del> 010
1	100	101	111	110

4 variables



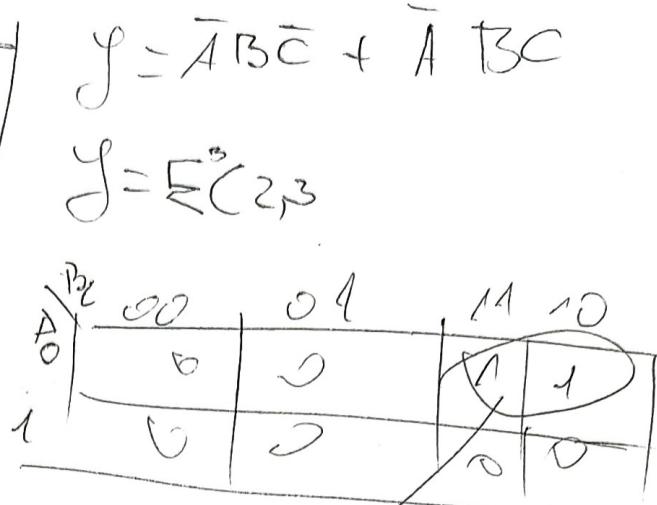
$A \backslash B \backslash C$	00	01	11	10
00	0000	0001	0111	0010
01	0100	0101	0111	0110
11	1100	1101	1111	1110
10	1000	1001	1011	1010



$$F = \sum (0, 2, 4, 5)$$

$$\begin{array}{r} \cancel{000} \cancel{001}, \cancel{100}, \cancel{110} \\ \hline A \backslash B \backslash C \\ 000 \\ 100 \\ 010 \\ 110 \\ \hline C \end{array}$$

$$F = \sum A'B'C + A'BC + AB'C + ABC$$



$$\begin{array}{r} A \backslash B \backslash C \\ 011 \\ 010 \\ \hline \end{array}$$

$$\begin{array}{r} A \backslash B \backslash C \\ 111 \\ 110 \\ 000 \\ 001 \\ \hline \end{array}$$

$(A \cdot \bar{C})$

$(\bar{B} \cdot \bar{C})$

$$\begin{array}{r} A \backslash B \backslash C \\ 110 \\ 100 \\ 000 \\ \hline \end{array}$$

$\sum (6, 10)$

$F = \bar{A} + \bar{C}$

$1 + 0 + 0$

$0 + 0 + 0$

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