

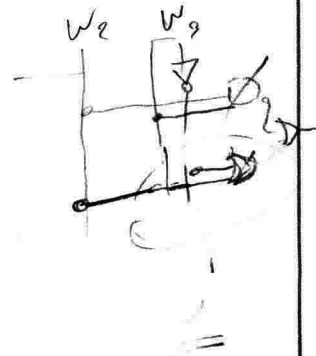
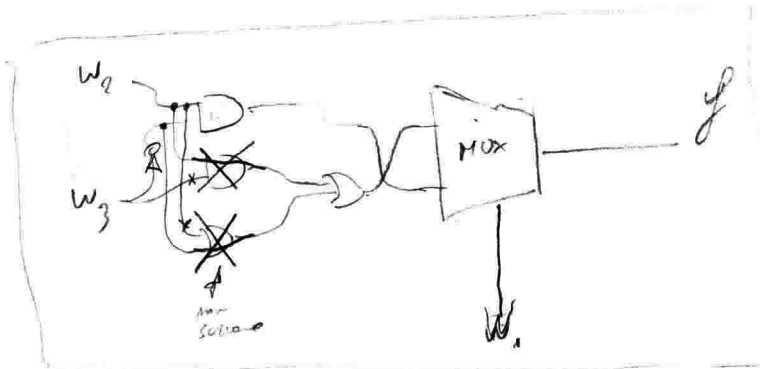
$$f = \bar{w}_1 \bar{w}_3 + w_2 \bar{w}_3 + \bar{w}_1 w_2$$

derivare un circuito da utilizzare un multiplexer con 1 ingresso e altre logiche

$$\bar{w}_1 (\bar{w}_3 + w_2) + w_2 \bar{w}_3$$

es.c.

$$\bar{w}_1 \left((\bar{w}_3 + w_2) + w_2 \bar{w}_3 \right) + w_2 \left((\bar{w}_3 + w_2) + w_2 \bar{w}_3 \right)$$



$$\bar{w}_1 (w_2 \cdot \bar{w}_3) + w_1 ((\bar{w}_3 + w_2) + w_2 \bar{w}_3)$$

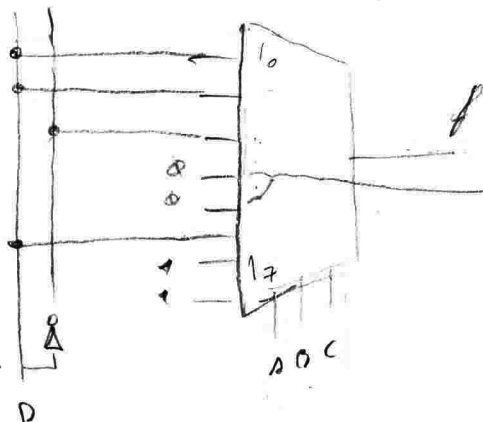
$$x + xy = x$$

$$w_2 + w_2 \bar{w}_3 + \bar{w}_3$$

$$f(A,B,C,D) = \sum m(1,3,5,11,12,13,14,15)$$

es.c. 1 se no
se non

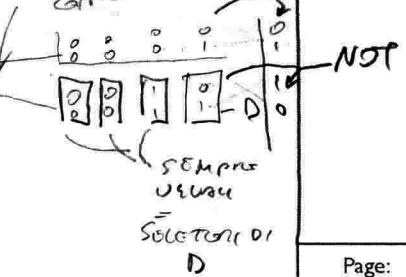
→ 1 mux 3C + 1 INV

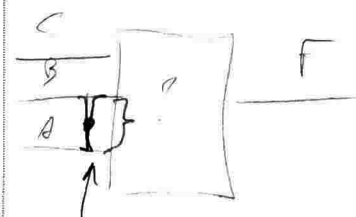
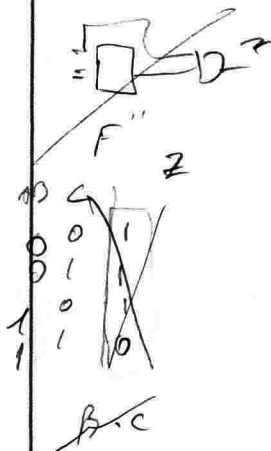
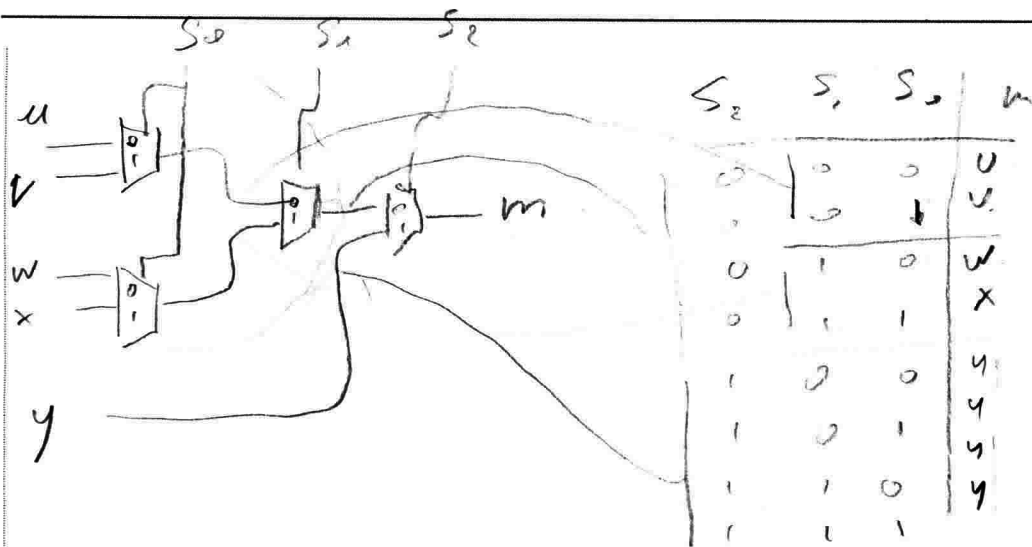


① TAB VERITÀ

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

SETTATO
CORRICO





$A = B$

$F = 1 \quad A = B = 0$

$A = B = 1 \quad A C = 0$

① MUX 3 INs.

A	B	C	F
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	0
1	1	0	1
1	1	1	0

CONDIT. INDIFF.

NAUD

②

~~$F = \bar{a}\bar{b}\bar{c} + \bar{a}b\bar{c} + a\bar{b}\bar{c}$~~

~~$\bar{a}\bar{b} + a\bar{b}\bar{c}$~~

