

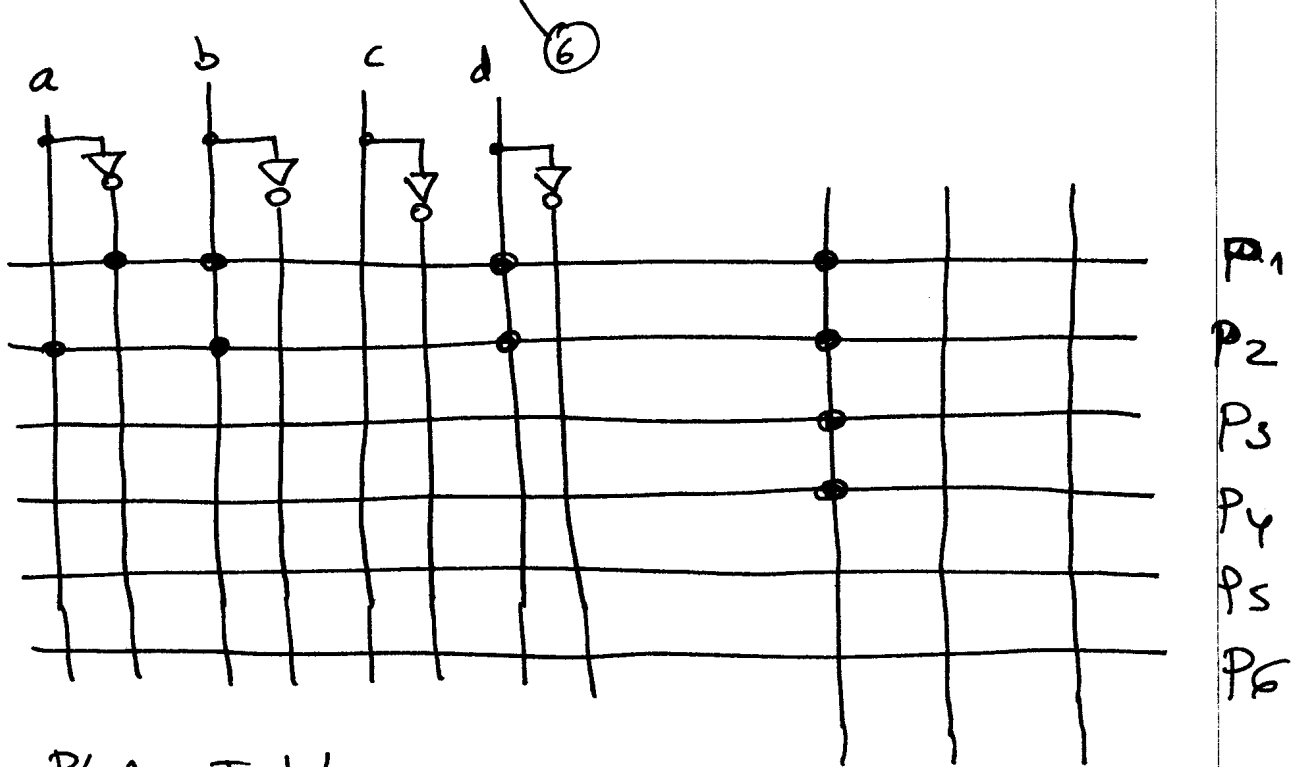
PROBLEM No.1

REALIZE:

$$f_1 = \bar{a}bd + abd + a\bar{b}\bar{c} + \bar{b}c$$

$$f_2 = c + \bar{a}bd$$

$$f_3 = bc + a\bar{b}\bar{c} + abd$$



PLA Table:

a	b	c	d	f ₁	f ₂	f ₃
0	1	-	1	1	1	0
1	1	-	1	1	0	1
1	0	0	-	1	0	1
-	0	1	-	1	0	0
-	-	1	-	0	1	0
-	1	1	-	0	0	1

PROBLEM #2

V.O klobd zija

Find minimal PLA realization of f_1, f_2, f_3 given with the true table:

a	b	c	d	f_1	f_2	f_3
0	0	0	0	0	0	0
0	0	0	1	1	0	0
0	0	1	0	0	0	0
0	0	1	1	0	0	0
0	1	0	0	0	0	0
0	1	0	1	1	1	0
0	1	1	0	0	0	0
0	1	1	1	1	1	1
1	0	0	0	1	1	1
1	0	0	1	1	1	0
1	0	1	0	1	1	0
1	0	1	1	1	1	0
1	1	0	0	0	0	0
1	1	0	1	1	0	0
1	1	1	0	0	1	1
1	1	1	1	0	1	1

