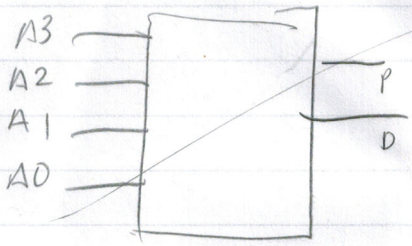
Alberto Pizano
ECE371

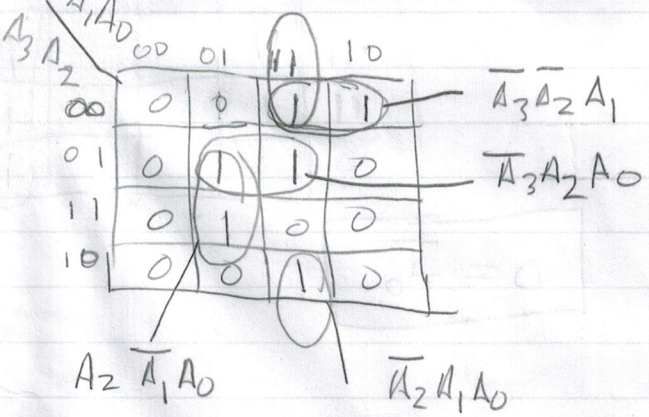
LAB #1

CSA
concurrent signal assignment

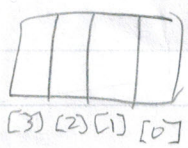
1.



$P = \Sigma A_3 A_2 A_1 A_0 (2,3,5,7,11,13)$



A



TRUTH TABLE

prime

A_3	A_2	A_1	A_0	P	D
0	0	0	0	0	1
0	0	0	1	0	1
0	0	1	0	1	0
0	0	1	1	1	0
0	1	0	0	0	1
0	1	0	1	1	0
0	1	1	0	0	1
0	1	1	1	0	1
1	0	0	0	0	1
1	0	0	1	0	1
1	0	1	0	0	1
1	0	1	1	1	0
1	1	0	0	1	0
1	1	0	1	1	0
1	1	1	0	0	1
1	1	1	1	0	1

$P = \bar{A}_3\bar{A}_2A_1 + \bar{A}_3A_2A_0 + A_2\bar{A}_1A_0 + \bar{A}_2A_1A_0$

$P = \bar{A}_3\bar{A}_2A_1A_0 + \bar{A}_3\bar{A}_2A_1A_0 + \bar{A}_3A_2\bar{A}_1A_0 + \bar{A}_3A_2A_1A_0 + A_3\bar{A}_2A_1A_0 + A_3A_2\bar{A}_1A_0$