

Lab 5

$\begin{matrix} A & B \\ C & 0 \end{matrix}$	00	01	11	10
00	1	1	0	0
01	1	1	1	1
11	1	1	0	1
10	1	1	0	0

$$F = A' + C'D + B'D$$

$$\begin{aligned}
 F' &= A(C+B')(C+B) \\
 &= (AC+AB')(C+B) \\
 &= ACB + ACB' + AB'B + AB'B' \\
 &\quad + AB'
 \end{aligned}$$

$\begin{matrix} A & B \\ C & 0 & E \end{matrix}$	00	01	11	10
000	1	0	0	1
001	1	0	0	1
011	1	1	0	0
010	0	0	0	0
110	0	0	0	0
111	1	1	0	0
101	0	0	0	0
100	1	1	1	1

$$F = B'D'E' + CDE' + A'B'C'E + B'C'D' + A'CE + A'C'DE$$