

Homework 17 Solution

7.

	C	B	A	C*	B*	A*
0	0	0	0	0	0	1
0	0	0	1	0	1	1
0	1	0	0	0	0	0
0	1	1	1	1	0	1
1	0	0	0	0	1	0
1	0	1	1	1	1	1
1	1	0	0	1	0	0
1	1	1	1	1	1	0

Mapping, C*, B* and A*, we get

B \ A \ C	0	1
00		
01		1
11	1	1
10		1

C*

B \ A \ C	0	1
00		1
01	1	1
11		1
10		

B*

B \ A \ C	0	1
00	1	
01	1	1
11	1	
10		

A*

$$D_C = B A + \underline{C A} + C B$$

$$D_B = B' A + C B' + \underline{C A}$$

$$D_C = C' B' + C' A + B' A$$