CS 240
Entrance Gates

Bnumber _____

About how many hours did you spend actively working on this assignment? _____

Q1. (3 points)

F1 =

F2 =

A	B	C		F1	F2
0	0	0			
0	0	1			
0	1	0			
0	1	1			
1	0	0			
1	0	1			
1	1	0			
1	1	1			

Q2. (6 points)

Q3. (5 points)

Q4. (15 points)

a) (A + B)(A + B')	Law used for reduction

b) ABC + A'B + ABC'	Law used for reduction
c) A'B' + A'BC' + (A + C')'	Law used for reduction

d) A'B'C'D' + AB'C' + AB'CD' + ABD + A'B'CD + BC'D + A'	Law used for reduction

Q5. (6 points)

a)

b)