Samuel Bearman Section 5 CMSC 313 Deepak

## Exercise #1

	Α	В	С	~A + (C * B)	~( ~B * ~C)	(~A + (C * B)) * (~( ~B * ~C))
0	0	0	0	1	0	0
1	0	0	1	1	1	1
2	0	1	0	1	1	1
3	0	1	1	1	1	1
4	1	0	0	0	0	0
5	1	0	1	1	1	1
6	1	1	0	1	1	1
7	1	1	1	1	1	1

POS: F = (A B C) + (A' B C)

## Exercise #2

	Α	В	С	~(~A * B) * ~(~A * B)	A * C	~(~A * B) * ~(~A * B) + (A * C)
0	0	0	0	0	0	0
1	0	0	1	0	0	0
2	0	1	0	0	0	0
3	0	1	1	0	0	0
4	1	0	0	1	0	1
5	1	0	1	1	1	1
6	1	1	0	1	0	1
7	1	1	1	1	1	1

SOP: F = (A B' C') + (A B' C) + (A B C') + (A B C)

POS : F = (A' B' C') + (A' B' C) + (A' B C') + (A' B C)

## Exercise #3

Α	В	output
0	0	1
0	1	0
1	0	0
1	1	1

SOP: F = (A' B') + (A B)POS: F = (A' B) + (A B')