## Shixin Wang

## Homework #1

## Truth Table:

А	В	С	Χ
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	1	0	1
1	1	1	0

Sum-of-Products representation:

X = (!A && !B && C) || (!A && B && !C) || (A && !B && !C)

Where !A = NOT(A), !B = NOT(B), and !C = NOT(C).