Name_____

1) For the truth table below, derive a Standard SOP and Standard POS expression:

ABCD	X
0000	0
0001	0
0010	1
0011	0
0100	1
0101	1
0110	0
0111	1
1000	0
1001	0
1010	0
1011	1
1100	1
1101	0
1110	0
1111	1

2) From the circuit, derive the truth table and then derive the POS Equation:
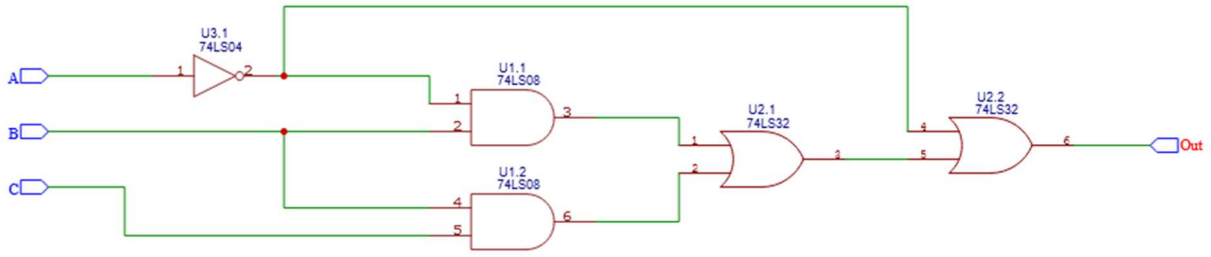
A	B	C	Out

3) Convert the circuit below to all NAND Logic: