

CS1203

Assignment 5

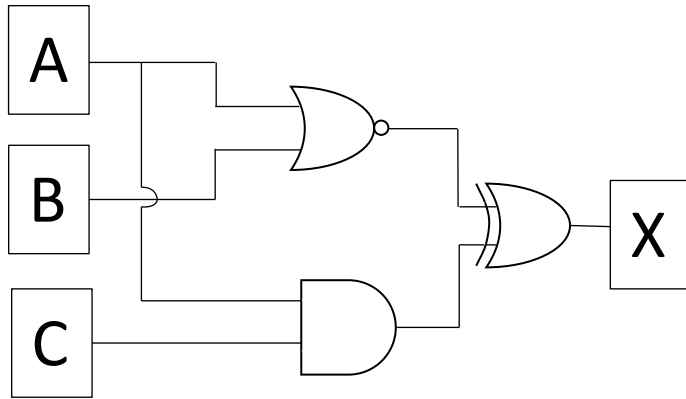
Isaac Shoebottom

3429069

“I warrant that this is my own work”

1.

$$a) X = (A+B)' \oplus (C \cdot A)$$



b) Truth Table

A	B	C	Output
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	1

2.

$$a) X = (A+B) \cdot (B')$$

b) Truth Table

A	B	Output
0	0	0
0	1	0
1	0	1
1	1	0

3

a) $X = (A \cdot B)' \cdot (C \cdot D)'$

b) $X = (A' + B') + (C' + D')$

c)

