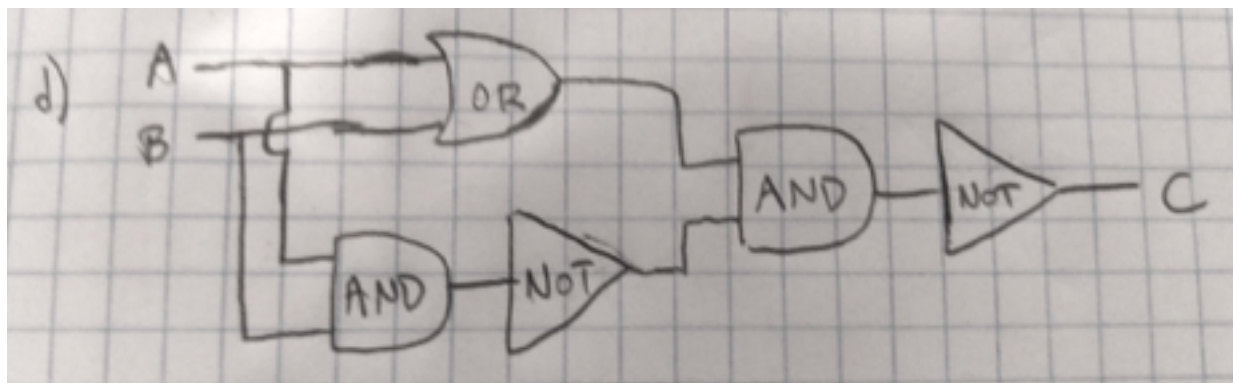
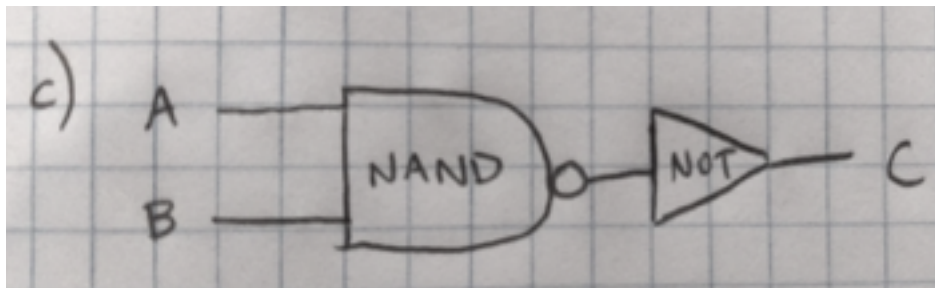
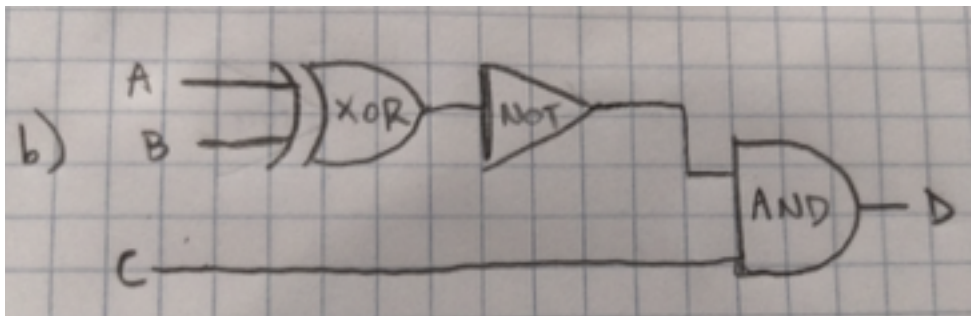
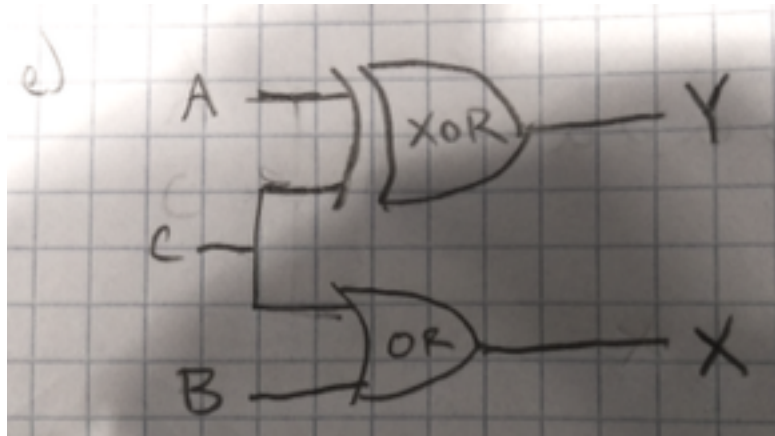


CSC 106 Assignment 2

1. a)

A	B	C	D
0	0	0	0
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	0
1	1	0	0
1	1	1	1





2. a) 831568 in base 10 = 11001011000001010000 in base 2

b) 20 bits were needed to represent part a

c) The largest number representable in unsigned binary using 20 bits is $11111111111111111111 = 20^{20} - 1 = 1048575$.

3. a) A 5 character input which is accepted by the DFA: "ababa"

A 5 character input which is not accepted by the DFA: "aaaaa"

b)

