

HW #1

1. I) A) 100000

B) 10111

II) A) 11

B) 21

III) A) 1111 0000 0000 0010

B) 1011 1110 1110 1111

IV) A) $15(16) + 15 = 255$

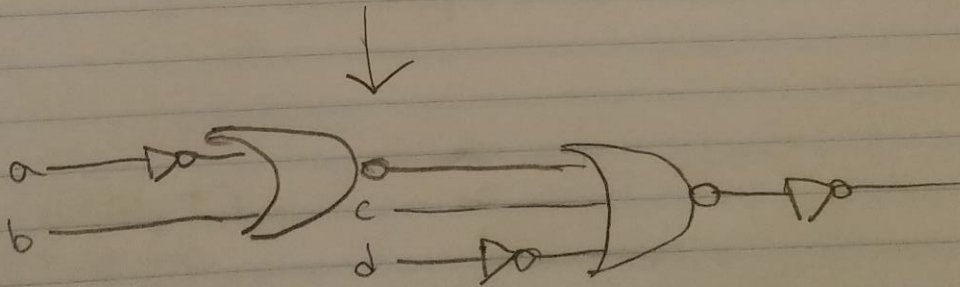
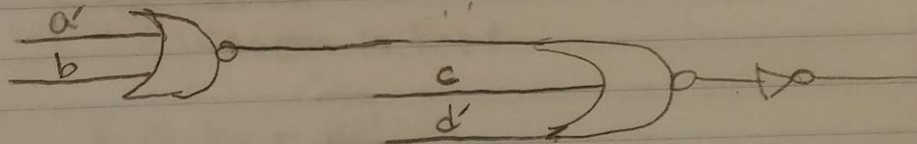
B) $1(16^2) = 256$

2. a)

a	b	N1	P1	N2	N3	P2	P3	f
0	0	off	on	on	off	off	on	0
0	1	off	on	on	on	off	off	0
1	0	on	off	off	off	on	on	1
1	1	on	off	off	on	on	off	0

b) ab'

3. $F = (a \text{ AND } b') \text{ OR } c \text{ OR } d'$ $ab' + c + d'$



4. $F = M + Lm'$