Pre-recorded > L1 (week 1) > Number conv > Practice pdf

1. $43_{10} \rightarrow 2B_{16} \rightarrow 101011_2$

16	43	
16	2	11 (B)
	0	2

111
1000
1001
1010 A

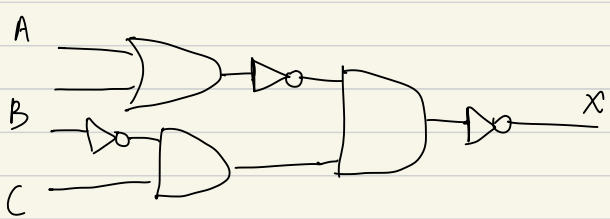
3. $A4_{16} \rightarrow 164_{10} \rightarrow 10100100_2$

5. $10101111_2 \rightarrow 175_{10} \rightarrow AF_{16}$

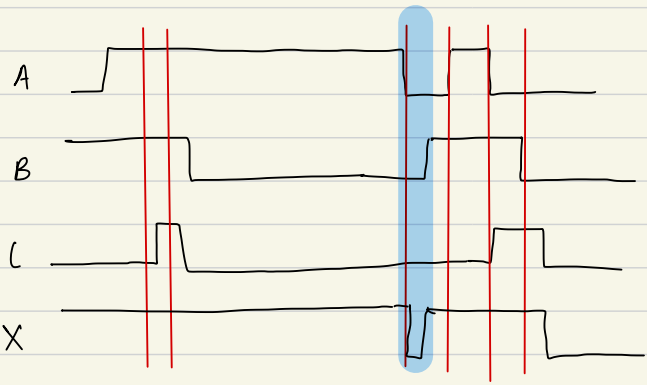
$1+2+4+8+32+128 = 175$

L1 practice questions

1. $X = [(A+B)'(B'C)]'$ (4 columns, 2^3 rows)



2. 0, 1 → if 0 and
if 1 or

3. $X = \overline{(\overline{A+B})(\overline{B+C'})} = (A+B)+(B+C') = A+B+C'$

A	B	C	X
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	1
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	1