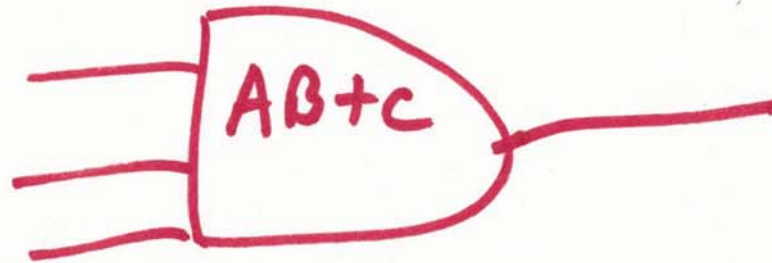
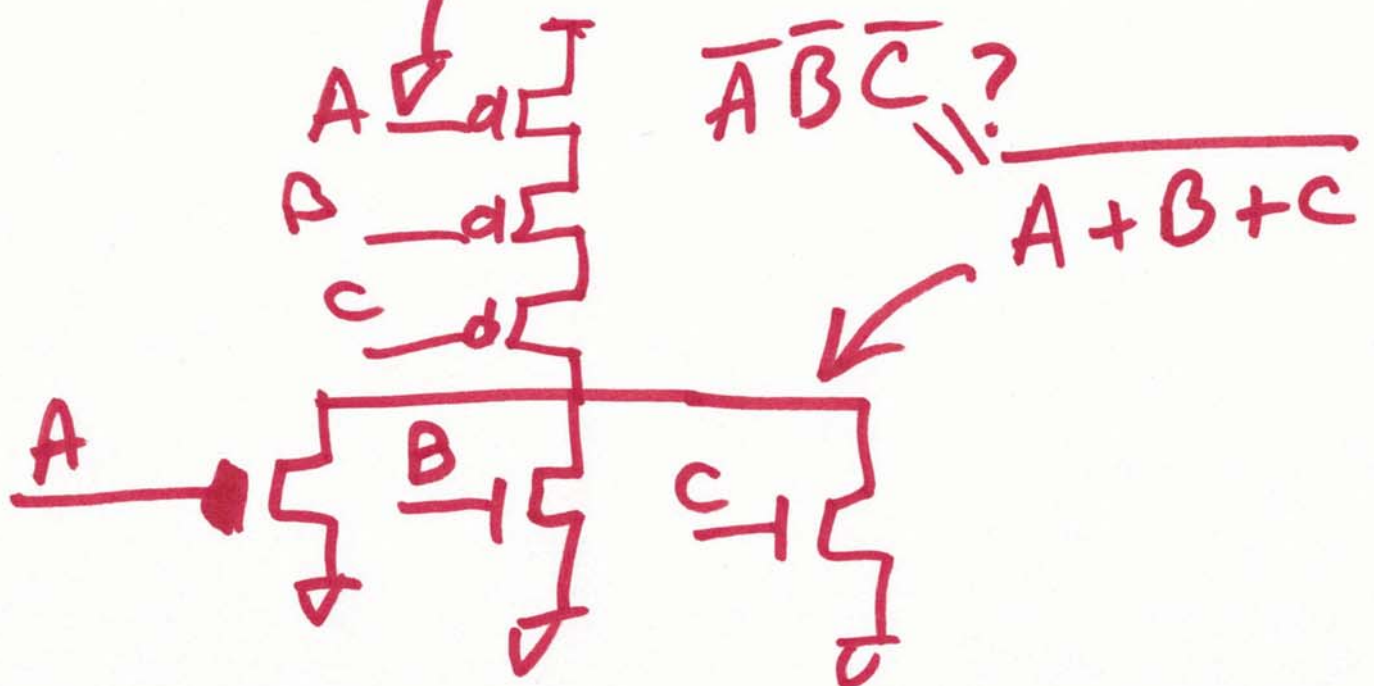
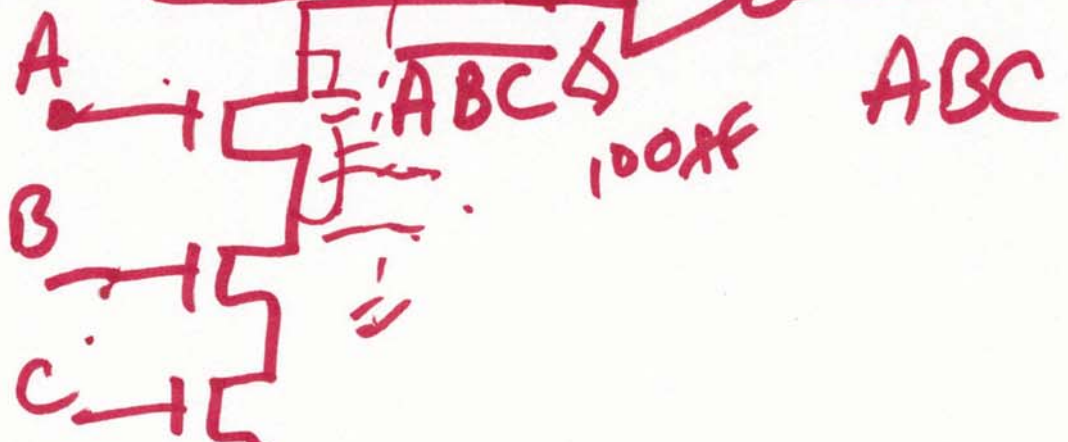
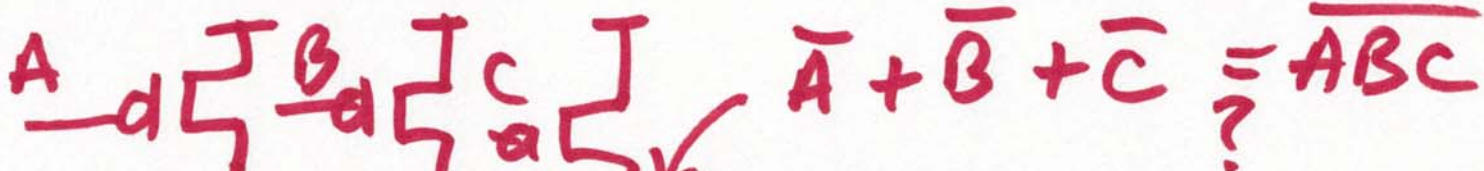


# Lecture 23

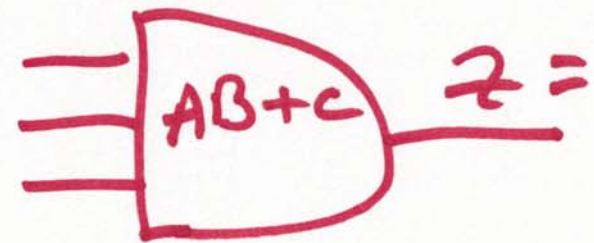
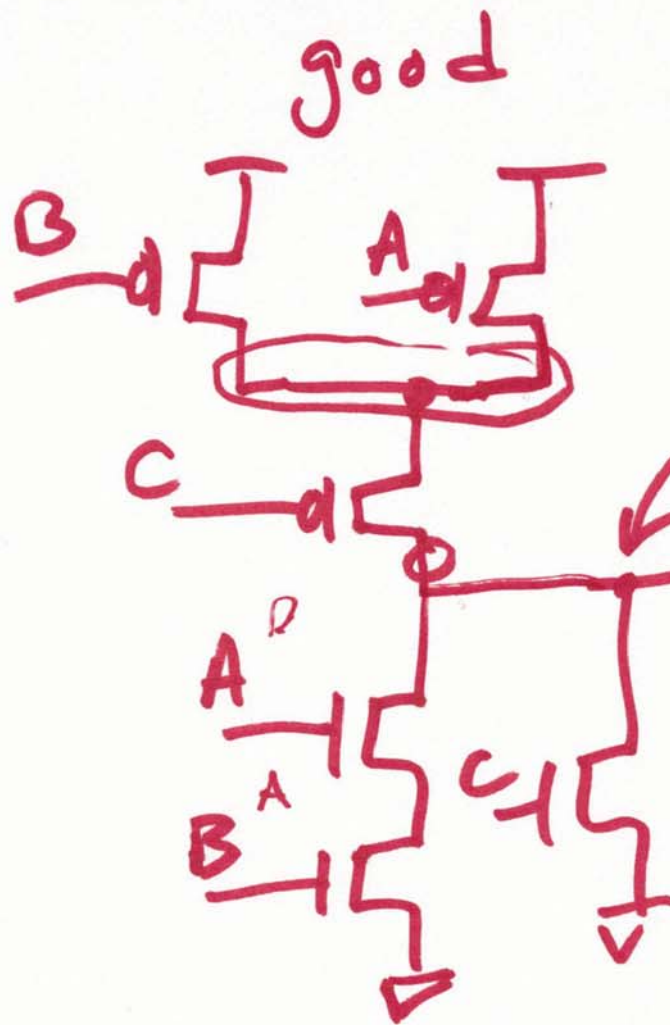
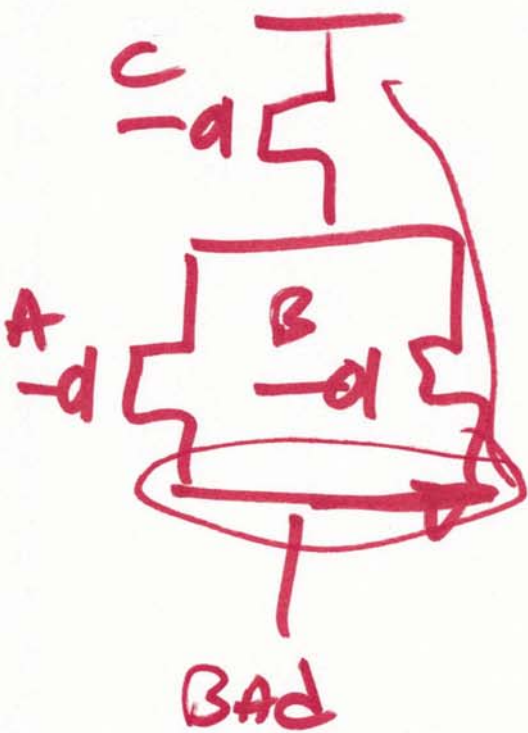
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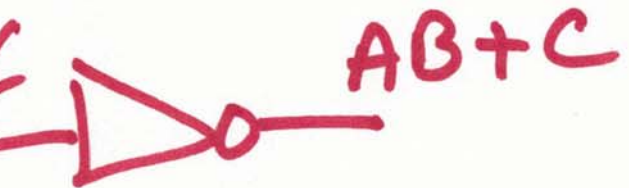




2)



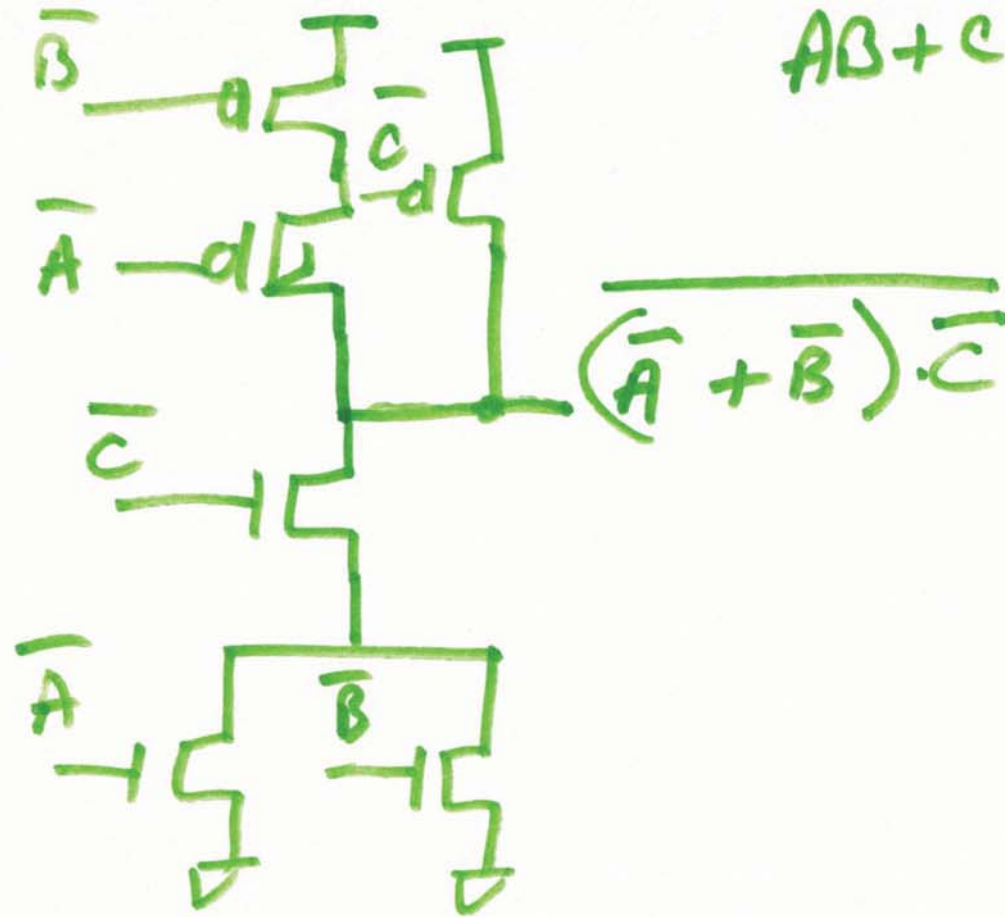
$$\overline{AB + C} = (\overline{A} + \overline{B})\overline{C}$$





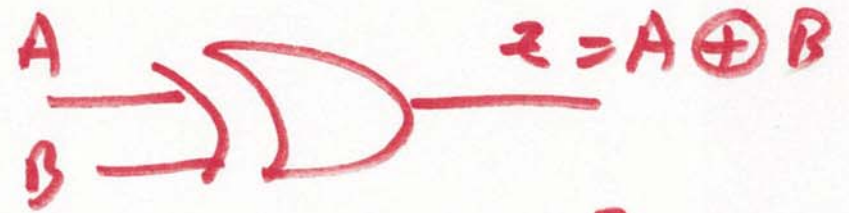


$$AB+C = \overline{(\overline{A} + \overline{B}) \cdot \overline{C}}$$



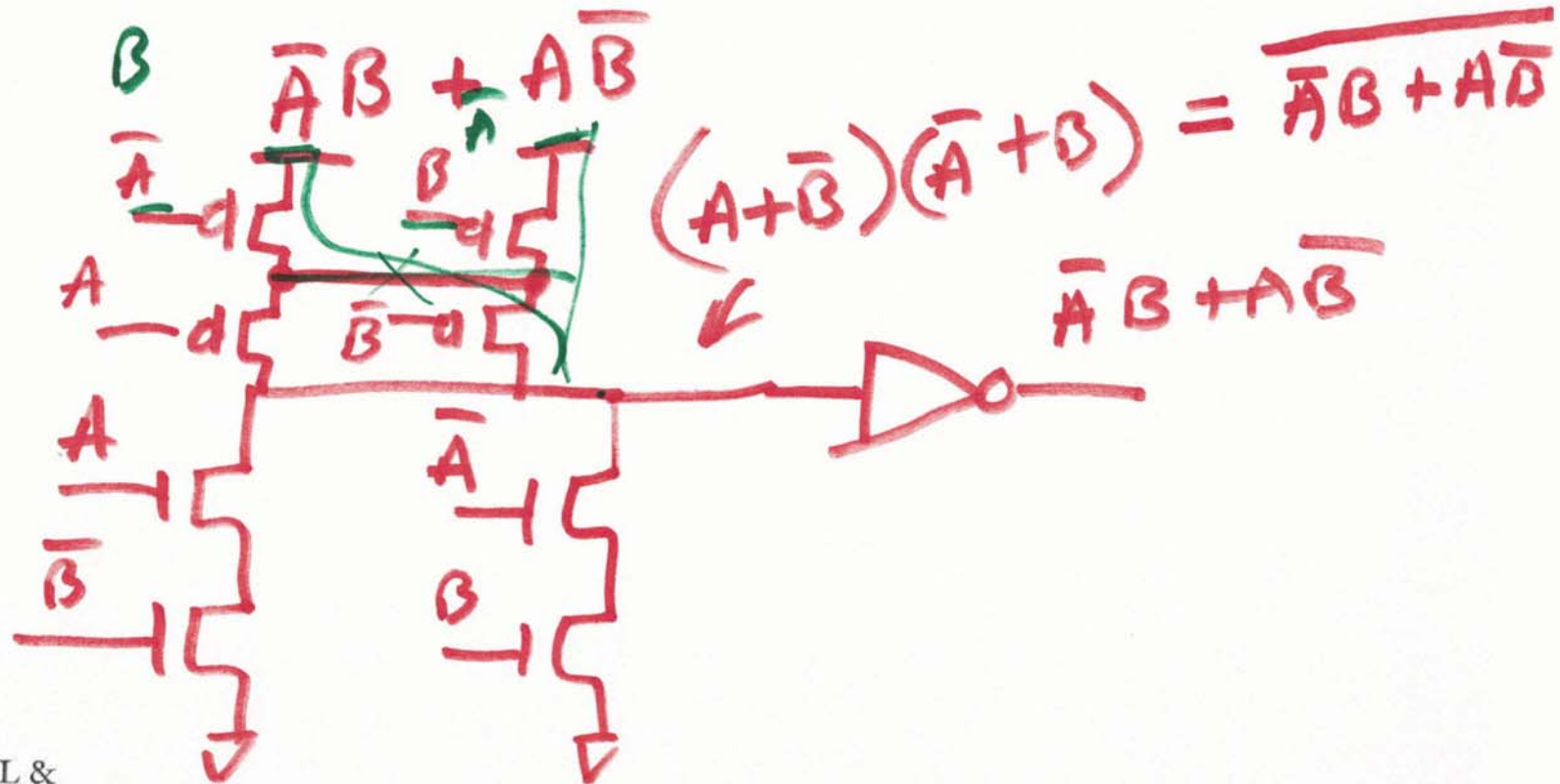
Assume  
complementary

XOR



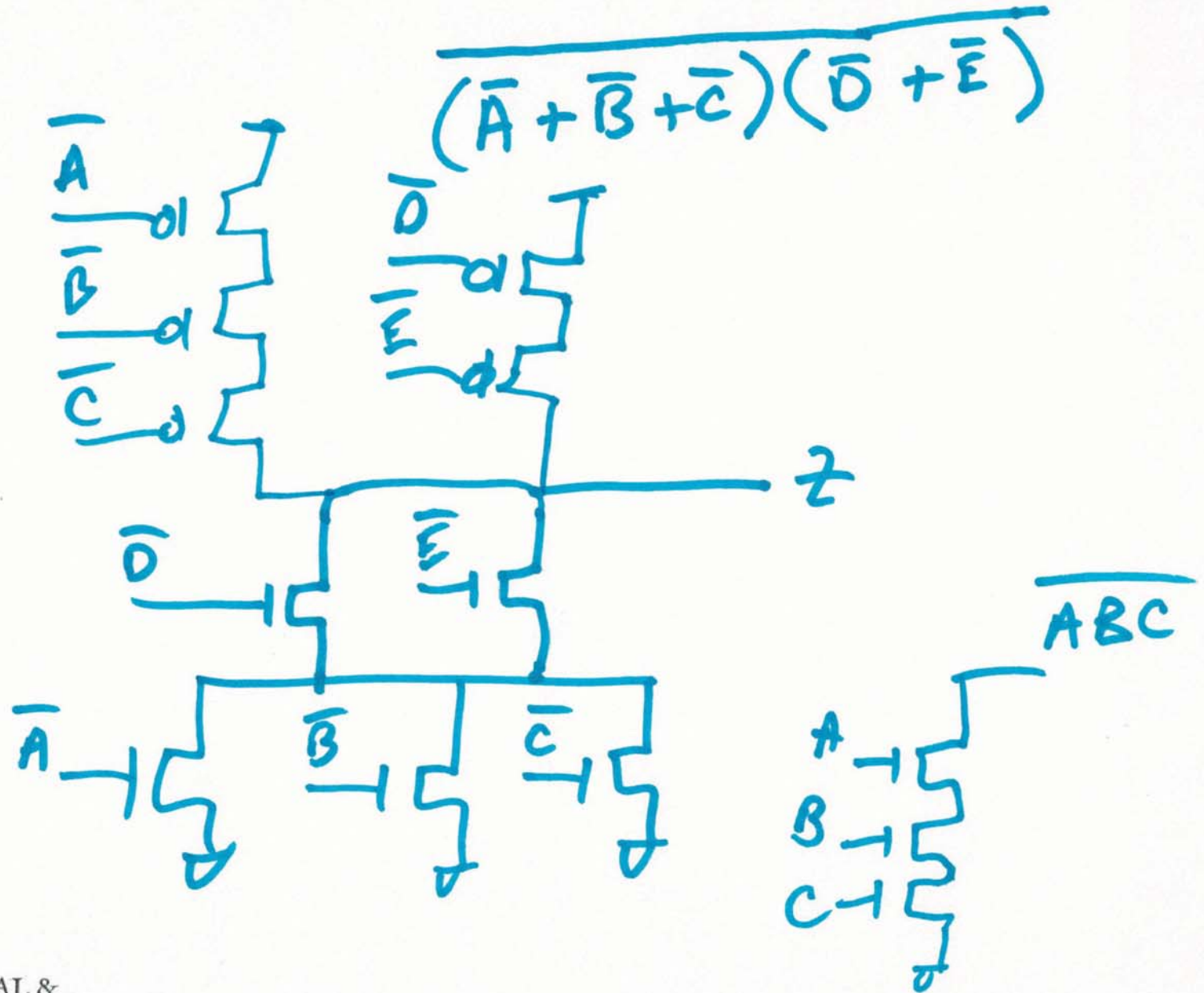
$A \oplus B$

A	B	z
0	0	0
0	1	1
1	0	1
1	1	0



5)

$$ABC + DE = Z$$



6)



A	B	C <sub>i</sub>	S	C <sub>out</sub>
0	0	0	0	0
0	0	1	1	0
0	1	0	1	0
0	1	1	0	1
1	0	0	1	0
1	0	1	0	1
1	1	0	0	1
1	1	1	1	0

		AD			
		00	01	11	10
C	0	0	1	0	1
	1	1	0	1	0