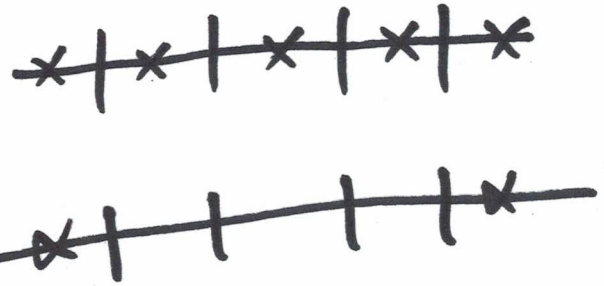
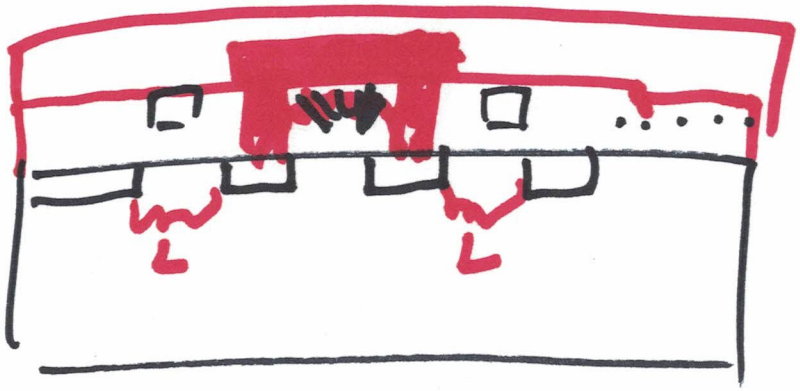
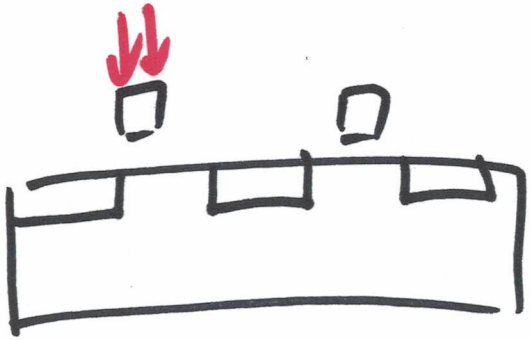
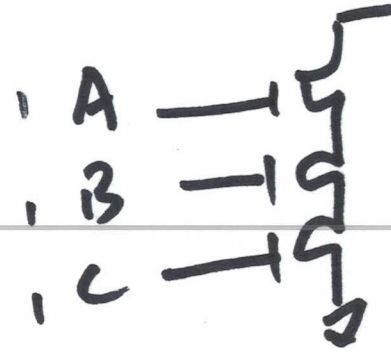


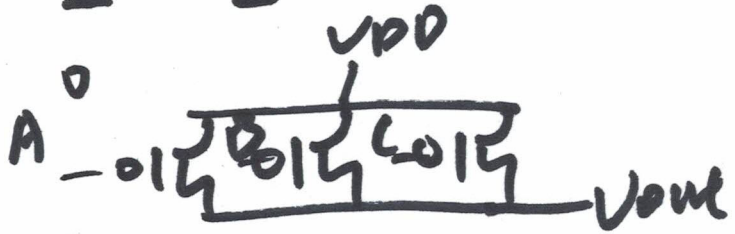


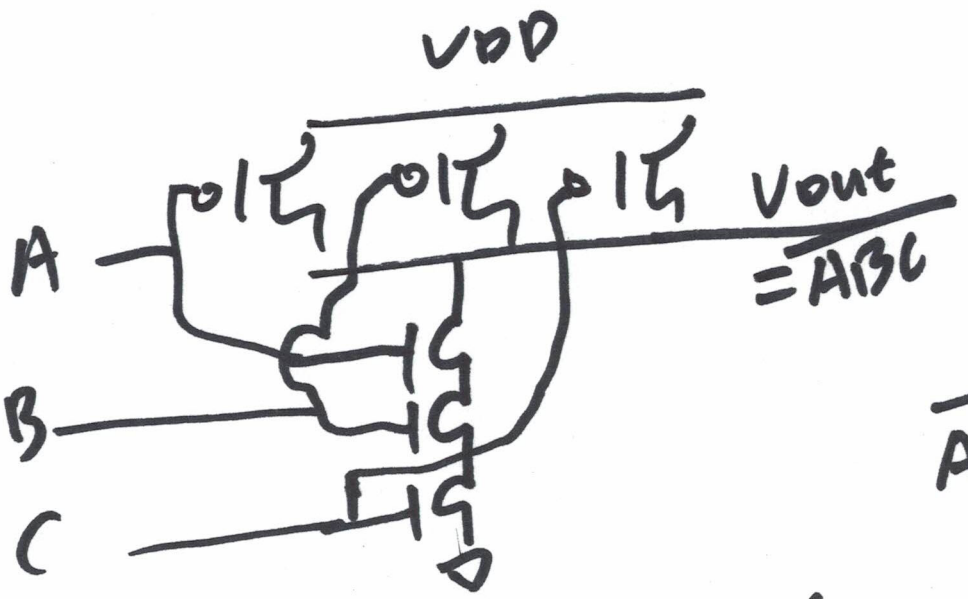


AOI → AND OR Inverse

$$V_{out} = \overline{A \cdot B \cdot C}$$



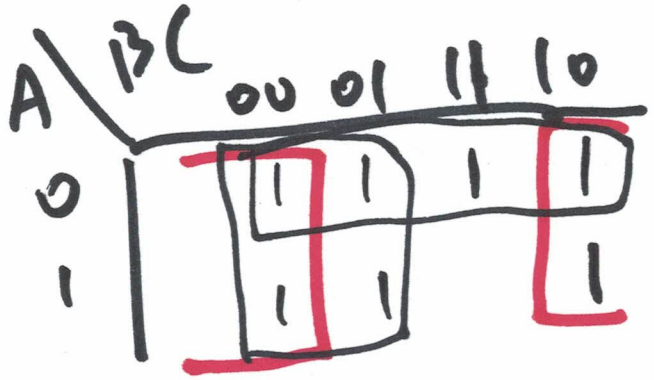




demorgan's law:
- split the bar
- change the sign

$$\overline{AB} = \bar{A} + \bar{B}$$

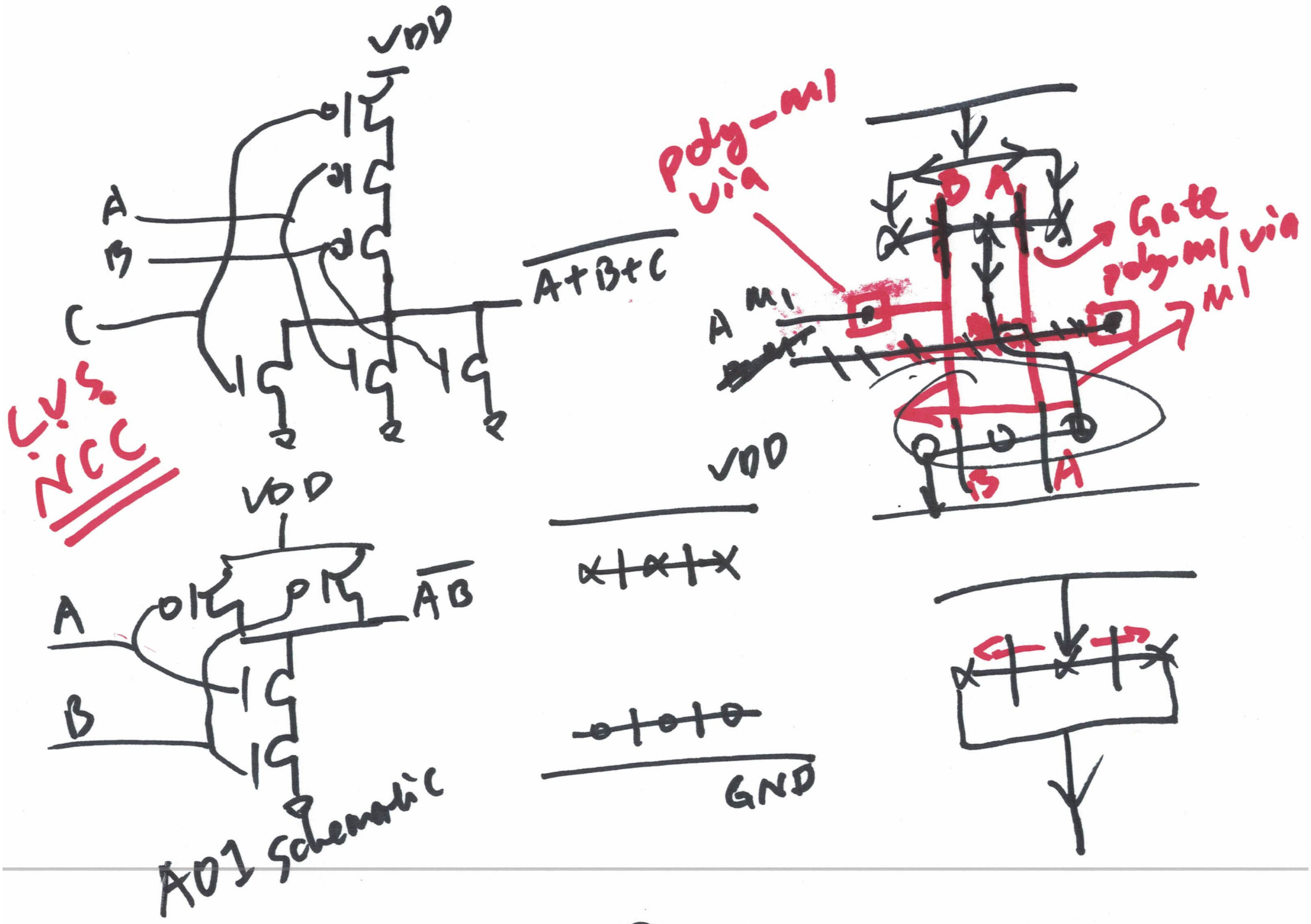
A	B	C	Vout
0	0	0	1
0	0	1	
0	1	0	
0	1	1	
1	0	0	
1	0	1	
1	1	0	
1	1	1	0



$$\bar{A} + \bar{B} + \bar{C}$$

$$\overline{ABC} = \overline{AB} + \bar{C} = \bar{A} + \bar{B} + \bar{C}$$

$\overline{ABC}$ //


VDD
A
B
C
A+B+C
LVS
NCC
poly-m1
via
Gate
poly m1 via
m1
A
B
A
VDD
GND
VDD
A
B
AB
AOI schematic

$$Y = \bar{A} + BC$$

$$= \overline{\bar{A} + BC}$$

$$= \overline{\bar{\bar{A}} \cdot \overline{BC}}$$

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