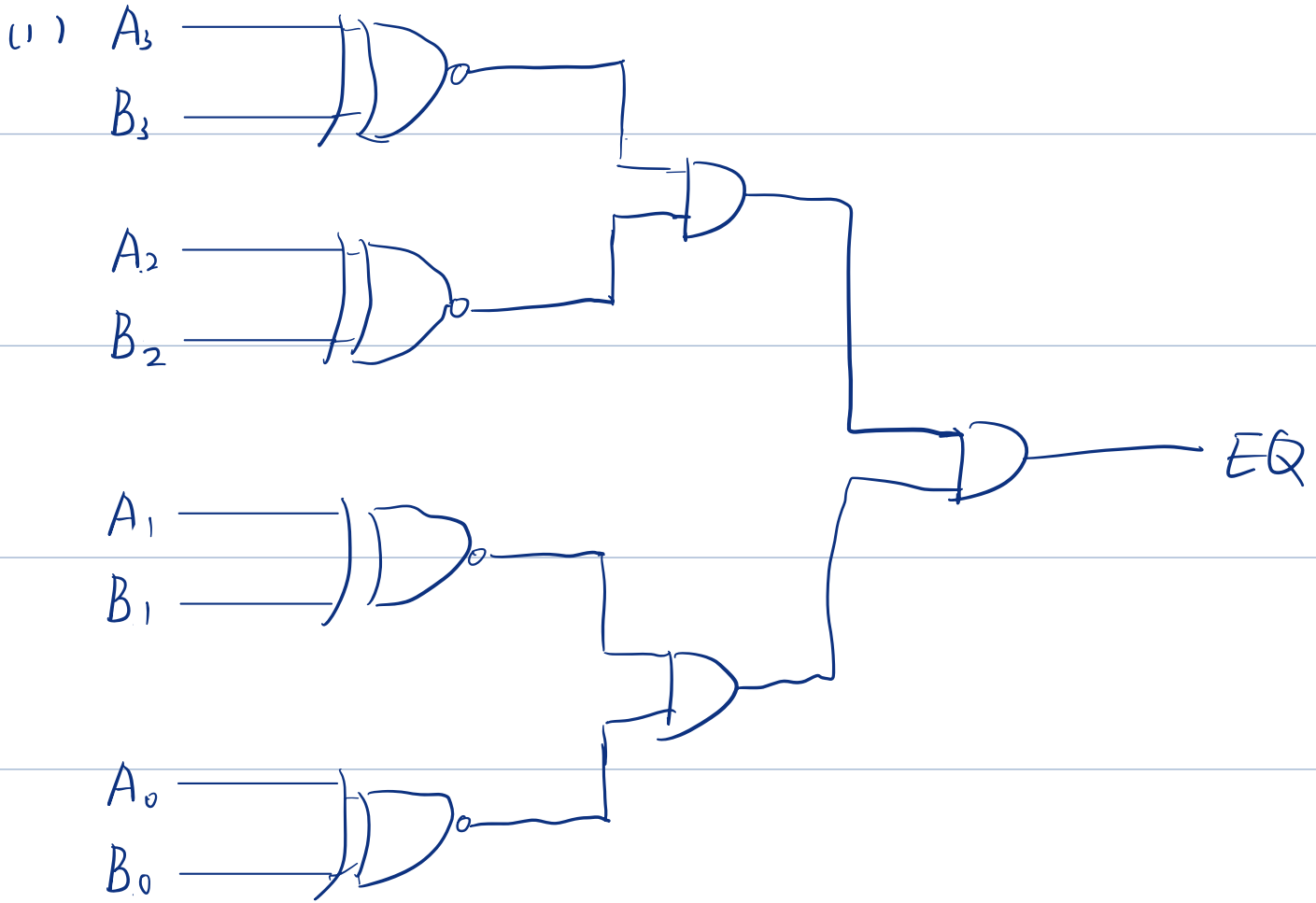


LAB 1



(2)

A	B	Y_1	Y_2	Y_3
0	0	0	1	0
0	1	0	0	1
1	0	1	0	0
1	1	0	1	0

$$Y_1 = A \oplus B$$

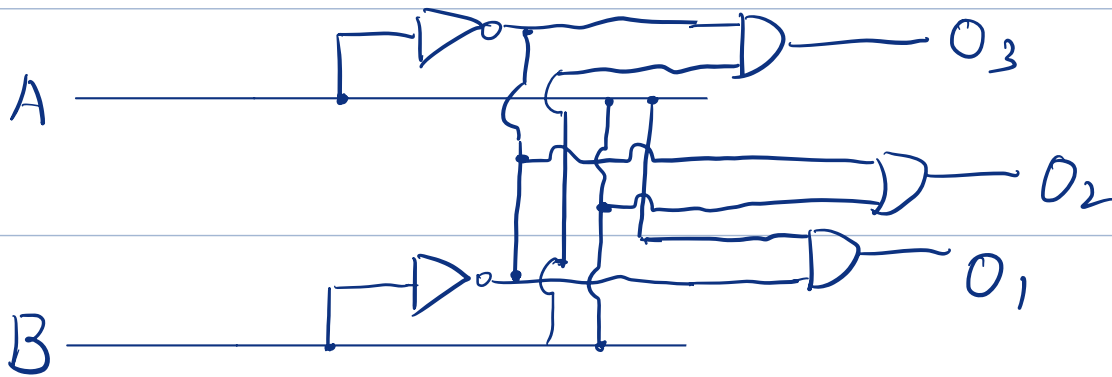
$$Y_2 = \overline{A \oplus B}$$

$$Y_3 = A \oplus B$$

$$O_1 = \overline{A} \overline{B}$$

$$O_2 = \overline{A} B + A \overline{B}$$

$$O_3 = A B$$



⇓ with only NAND

$$O_2 = \overline{\overline{\overline{A} \overline{B}} + \overline{A} B} = \overline{\overline{A} B + A \overline{B}} = \overline{\overline{A} B} \cdot \overline{A \overline{B}}$$

