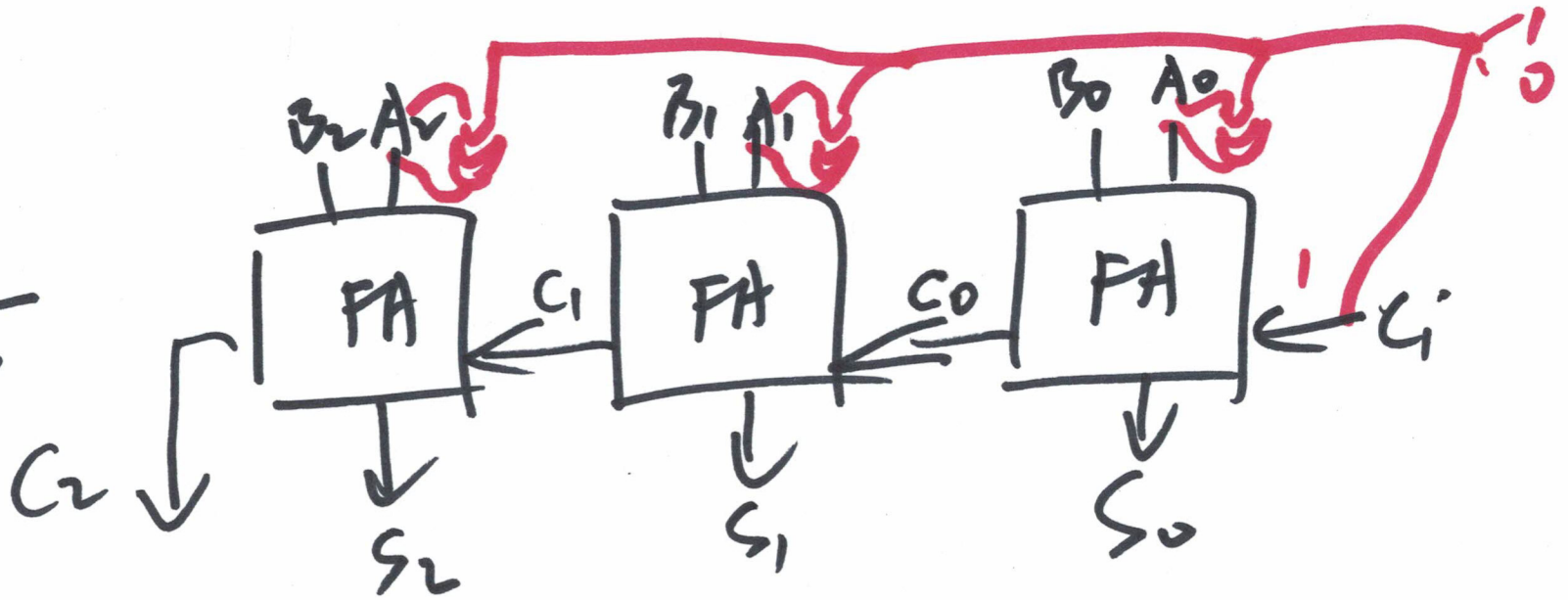


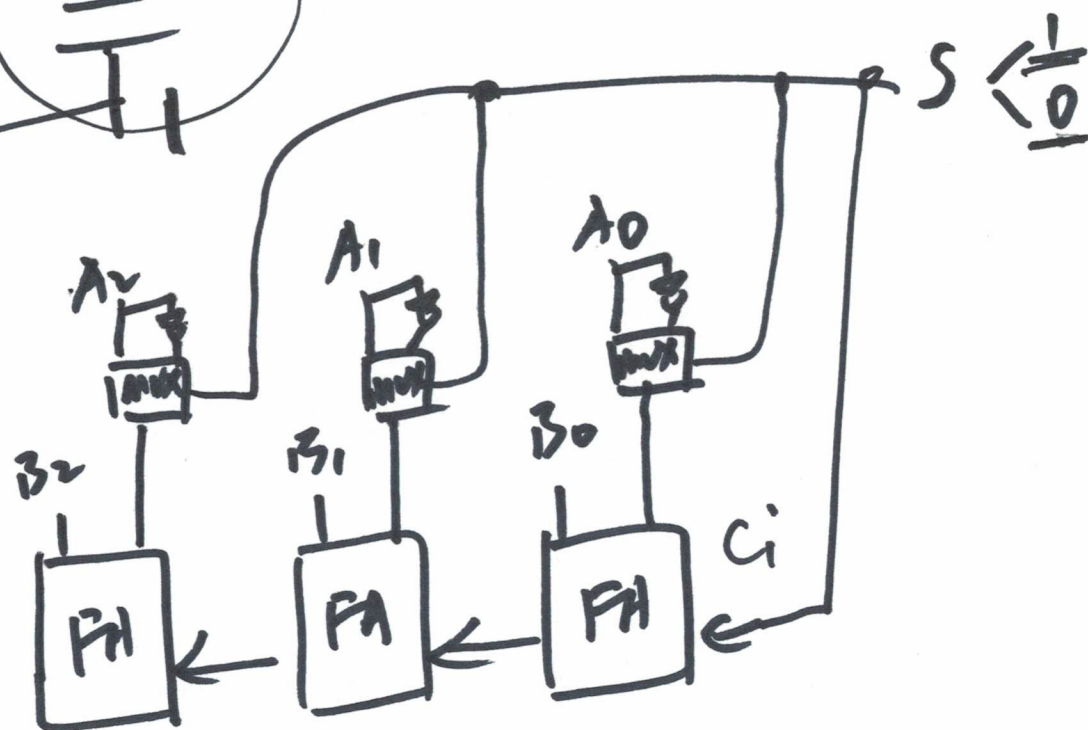
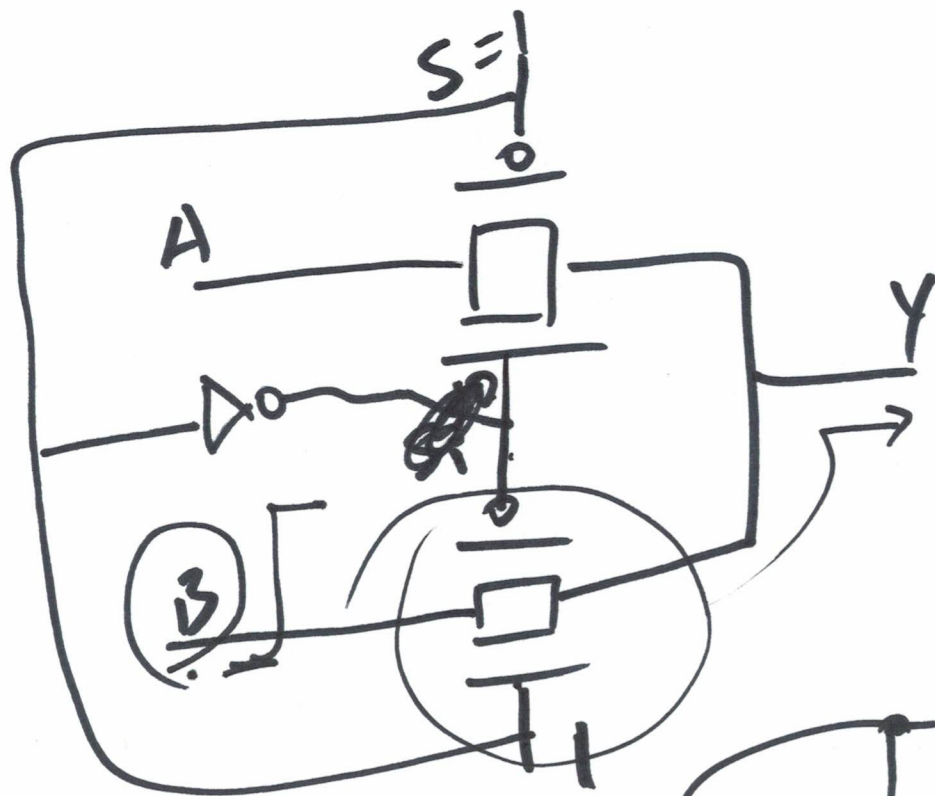
$$\begin{array}{r} B_2 B_1 B_0 \\ + A_2 A_1 A_0 \\ \hline C_2 C_1 C_0 \end{array}$$



$$\begin{aligned} B_2 B_1 B_0 - A_2 A_1 A_0 \\ = B_2 B_1 B_0 + (-A_2 A_1 A_0) \end{aligned}$$

$$\begin{aligned} A \oplus 1 &= \bar{A} \cdot 1 + A \cdot \bar{1} \\ &= A \end{aligned}$$

$$A \oplus 0 = A$$



(2)

High speed FA

A	B	C _i	S	C _o
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	1

→ K-map → Logic Expression

Simplify

S:		C _i	
A	B	0	1
0	0	0	1
0	1	0	0
1	0	0	0
1	1	1	0

$$S = A \oplus B \oplus C_i$$

$$C_o = (A + B)C_i + AB$$

③

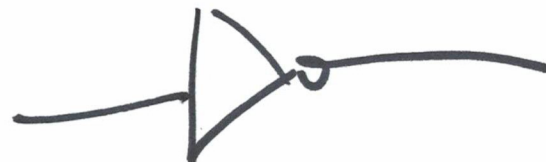
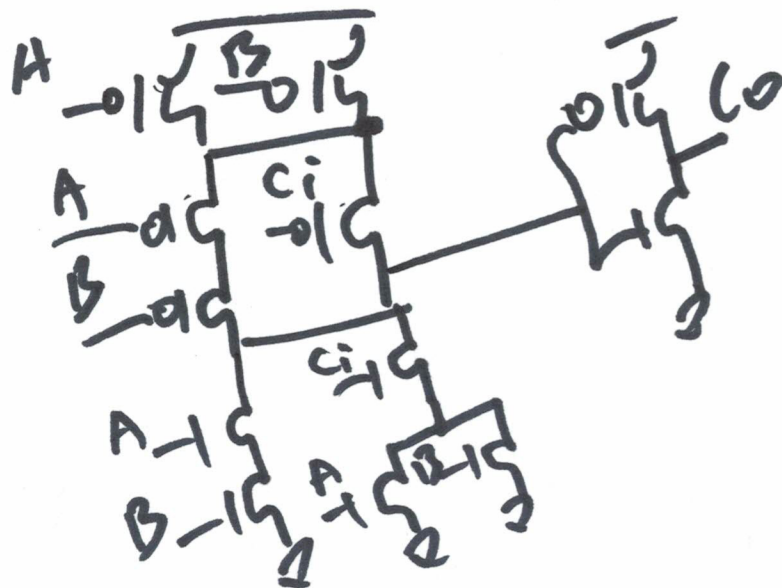
$$S = (A + B + C_i) \overline{C_o} + \overline{A + B + C_i} C_o$$

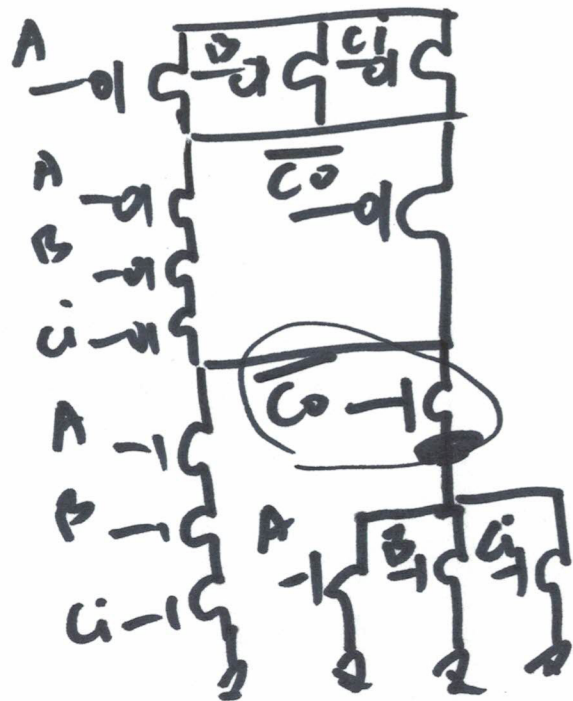
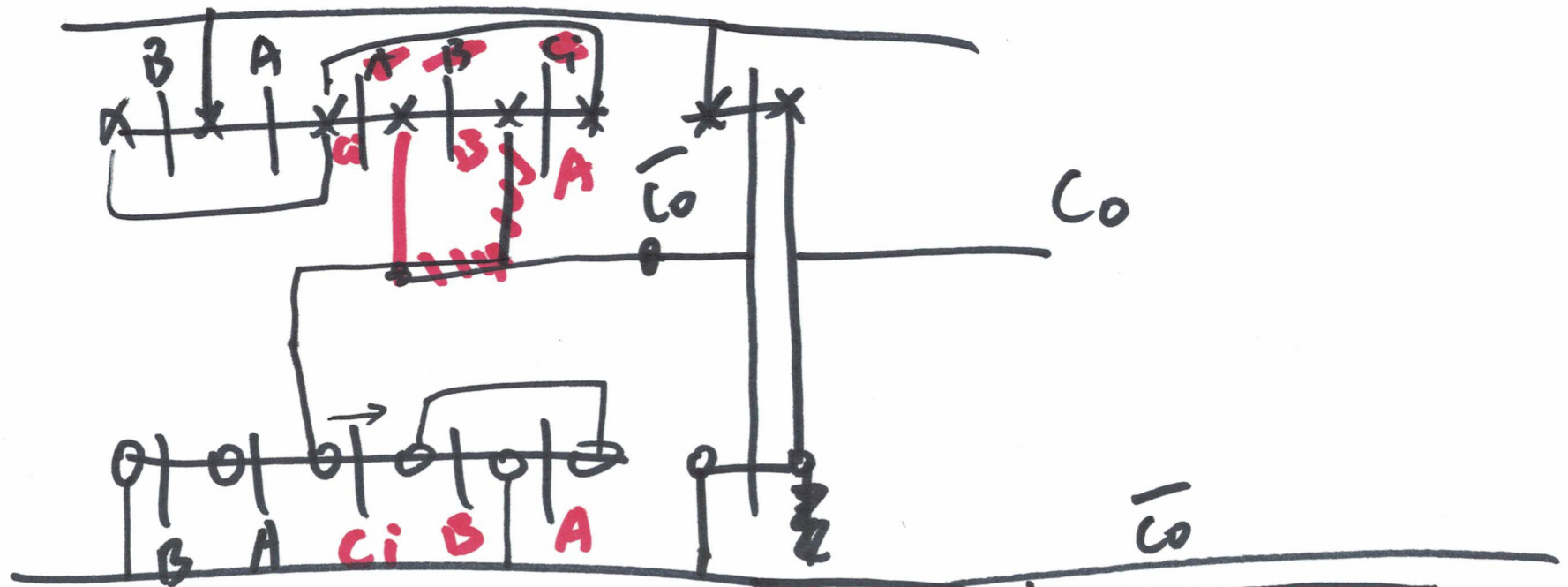
~~$$C_o = (\overline{A + B}) \cdot (\overline{A \cdot B} + \overline{C_i})$$~~

$$C_o = (A + B) C_i + \overline{A \cdot B}$$

$$\boxed{A \cdot B}$$

$$\boxed{\overline{A \cdot B}}$$





(15)

