

143.38

AB \ CD	00	01	11	10
00	m_0	m_1	m_3	m_2
01	m_4	m_5	m_7	m_6
11	m_{12}	m_{13}	m_{15}	m_{14}
10	m_8	m_9	m_{11}	m_{10}

144.44

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

$$0100 \quad 0101 \quad \underline{1100} \quad 1101 \quad 1001$$

AB \ CD	00	01	11	10
00				
01	1	1		
11	1	1		
10			1	

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

144.46

AB \ CD	00	01	11	10
00	0	1	0	1
01	1	1	1	1
11	1	1	1	0
10	1	0	0	1

$$= \bar{A}\bar{B}\bar{C}D + \bar{B}\bar{C}\bar{D} + \bar{A}BC \\ + ABD + A\bar{C}\bar{D}$$

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

144.49

a. false table:

0101, 1010, 1111

AB \ CD	00	01	11	10
00				
01		0		
11			0	
10				0

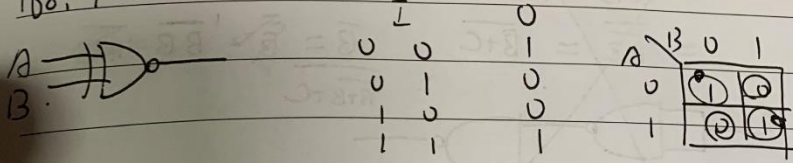
= 原式, 无法化简.

~~145.51~~ 145.51 在前面.

168.2

$$u. X = \bar{A} + \bar{A}B + AC = \bar{A} + AC$$

168.7



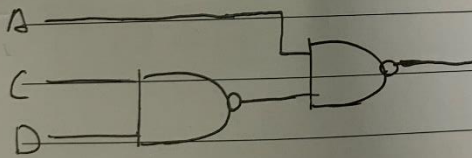
$$= (A+B)(\bar{A}+\bar{B}) = A \oplus B$$

169.12

$$a X = \bar{A}B + CD + (\bar{A}-\bar{B})(ACD + \bar{B} + \bar{E})$$

$$= \bar{A}B + CD + \bar{A}\bar{B} + \bar{A}\bar{B}\bar{E} = \bar{A} + CD + \bar{A}\bar{B}\bar{E} = \bar{A} + CD$$

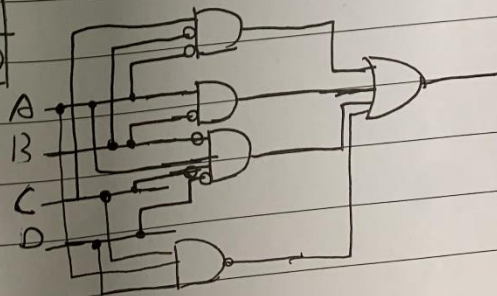
$$= \overline{A\bar{C}\bar{D}}$$



170.14

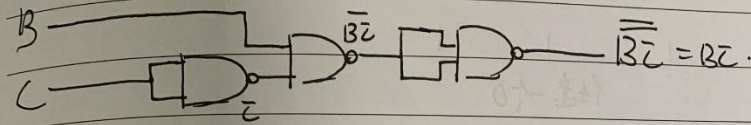
AB	00	01	11	10
00			1	1
01	1			
11			1	
10	1	1	1	1

$$= \bar{A}\bar{B} + \bar{A}B\bar{C}\bar{D} + \bar{A}B\bar{C}L + ACD$$



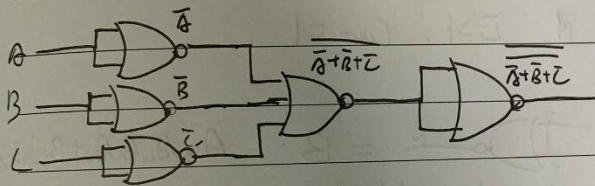
170. 21

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

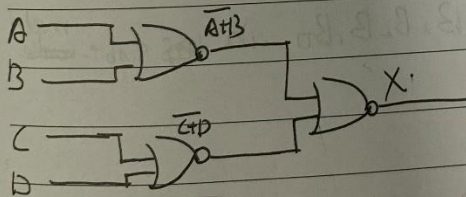


170. 29

$$b. X = \overline{ABC} = \overline{A+B+C} = \overline{\overline{\overline{A+B+C}}} \quad \overline{A} = \overline{A+B}$$



$$f. X = \overline{A+B} + \overline{C+D}$$



213.2

a. $0 \ 0 \ 1 \ 0 \ 1 \ 0 \ 1 \ 0$ or $0 \ 1 \ 0$

b. $0 \ 0 \ 0$
任意一个 1

c. $1 \ 1 \ 1$
任意一个 0

213.3

a. $\bar{C} = 1$, Count = 0 b. $\bar{C} = 1$, Count = 0

c. $\bar{C} = 0$, Count = 1 d. $\bar{C} = 1$, Count = 1

213.6

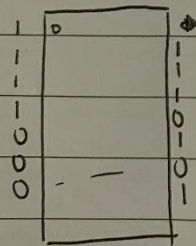
a. when High. $\frac{1}{B} \rightarrow \text{X} = B \cdot A_3 A_2 A_1 A_0 + B_3 B_2 B_1 B_0$

The rst = ~~1~~ + 1, in add ~~model~~ model.

b. when Low. $\frac{0}{B} \rightarrow \text{X} = \bar{B}$

The rst = $A_3 A_2 A_1 A_0 - B_3 B_2 B_1 B_0$ in ~~subt~~ ^{model} ~~model~~

214.10



~~ATK~~

$A_4 A_3 A_2 A_1 = 0110$

$B_4 B_3 B_2 B_1 = 1110$ it didn't

$C_4 \bar{C}_3 \bar{C}_2 \bar{C}_1 = 1011$ work properly,