数字电路与数字系统 第四章作业

姓名:

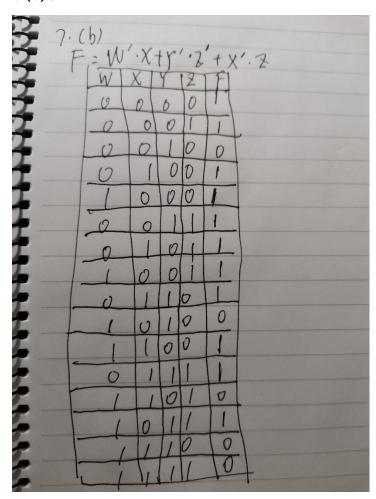
学号:

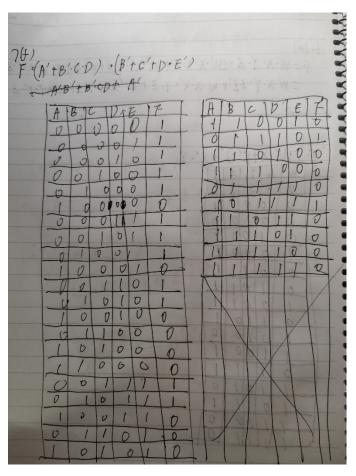
邮箱:

6(a).

6- (a) F = W·X·Y·Z·(W·X·Y·Z'+ W·X'·Y·Z+ W·X·Y·Z+ W·X·Y'Z) = w·X·Y·Z·Z'+ w·X·X'·Y-Z+ w·x·Y·Z+ w·x·Y·Z =0

7(b).



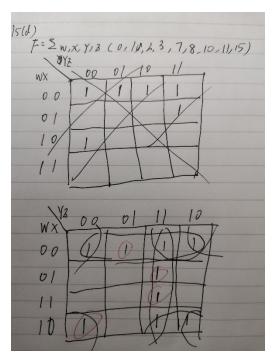


10(c).

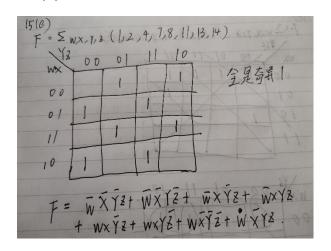
10(f).

10.H) . A'	B†	3/0	st A)
7	A	B	C	F	标准和:4
mo	0	0	0	0	T== EA,B,CD (1,2,3,4,5,6,7)
mi	0	0	1	11	
m2	0	11	D	1	木京州五种,:
m3	0	1	J	L	F = 11 4, B, C, U (0)
m4	1	10	0	1	
m5	1	0	1	1	
mb	1	11	0	1	
m1	1	14	1	1	

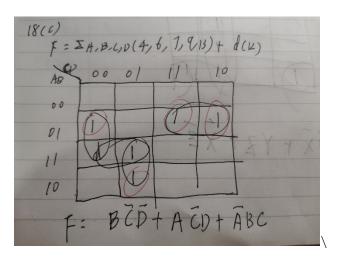
15(d).



红笔圈的即为奇异 1, 积之和为 F=W' X' +YZ+X' Z' **15(e)**.

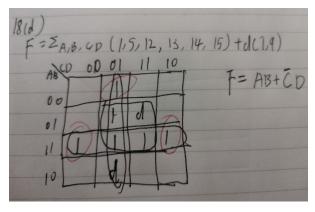


18(c).



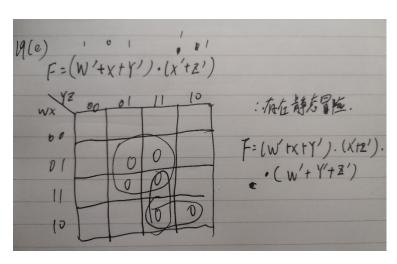
红笔圈的即为奇异1

18(d).

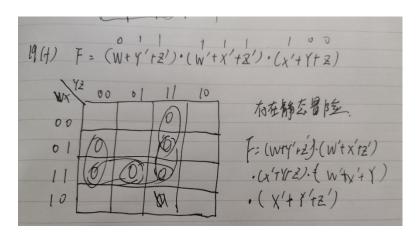


红笔圈的即为奇异1

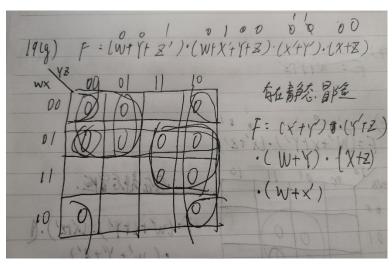
19(e).



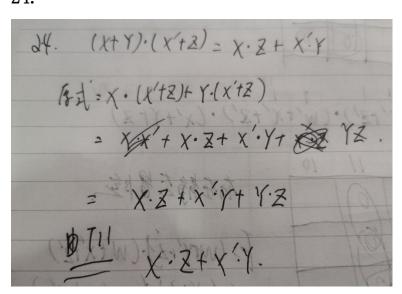
19(f).

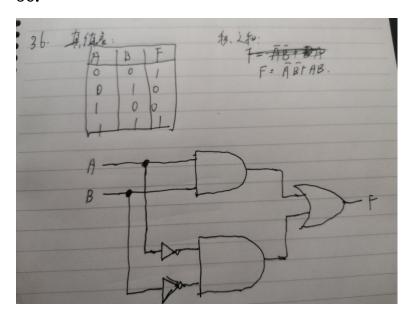


19(g).

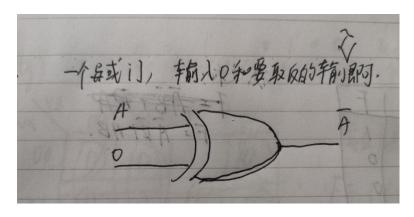


24.





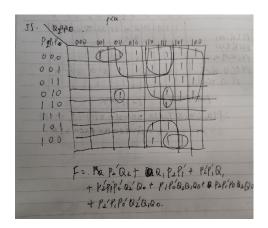
38.



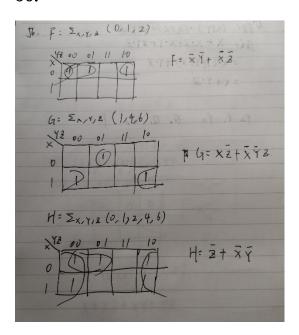
45. (???不会)

有 XY、XZ、YZ、XYZ 四种输入,所以有 $2^4=16$ 种逻辑函数 **46.**

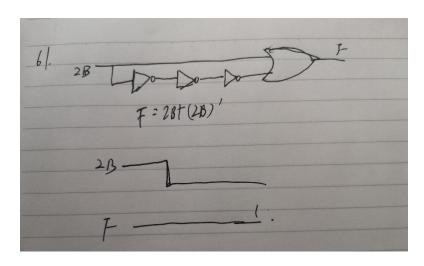
55.



56.



61.

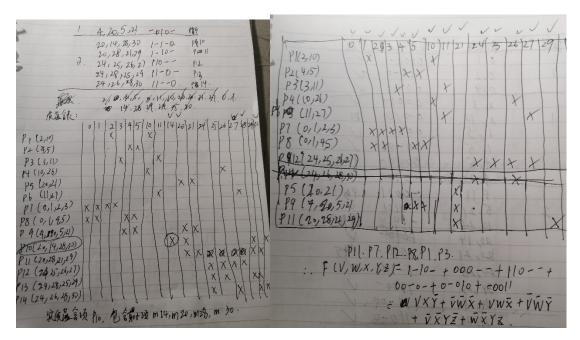


用 QM 方法化简 59(c)和 60(a):

59(c)

/			
091c) F=	10)	- X-	1, 16, 14, 26, 27, 24, 25,
4 (1161)	大, 玩	, VWXYZ	绮
0	0	00000	
	1	00001	V
1	2	00010	V
	4	00100	I V
	3	00011	\ \ \
	5	00101	1/
2	10	01010	
1 24.55.24	2011 81	10100	TELLING FEETING AL
		11000	1
	1 24		(4) 28 1/10
0	11/	10011	V
2	14	10110	V.
	121	10/01	I V
	25	11001	
	26		
		11010	I V
	28	11100	V
	127	11011	1
	29		11/
4		11101	1
	30	11112	
-			

(nv.1	1	dubing	
1831	最小项组	VWXYZ	134
0	0,1	0000-	2 1000
	0,4	00-00	
HITT	2,3	0001-	1 1818
11/8/	2, 10	0-010	PI (1-00)
	1.3	000-1	
	1,5	00-01	V (24/10)
1141	4,5	00 10-	92
	4,20	-0100	U
-	3,11	-0011	P2 112
2		1-0101	P3
1		-1010	10 R894
111	10,26	10100	1/
	20,14		01.0
	20,21.69.		PA5
+ -01	20,28		· FUVA
	24,25	-01/100-	V
YWYT	24,28	1. 1 H-08	· V
	24,26		V
	11,27	1-011	15, P6
3	21,29	1-101	, ,
	25,29	11-01	
	26,27	1/01-	V,
	28, 30	1110	V
s.ht.	0,1,2,3		W)
再次载		600	107 P16.7
0	0,2,1,3	000-	2017
	014,15	00-0-	214



bola) F=	Zuvwxyz (KB	9 18 21. 22 18 2V 3	X HO EX IX
41747	展十次 1	LVWXYZ	1,48,53,51)
1	1	000001	6月
1	5	p 0 0 1 0 1	
	9	001001	
3	13	0 0 1 1 0 1	-
	2	0 10101	V
	2837	100101	V
4	23	010111	V
	29	061101	V
	45	10/10/	V
	53	110101	1/
5	31	0 1111	V
	61	111101	V
-			V
1	1.5	000-01	./
_	119	00-001	
		00-101	· /
v	5,2	0-0/01	V
	5,37	- 00 01	V
	9,13	001-01	-V
3	13,29	E 0-1101	· V
	13,45	-01101	V
	21,19	01-101	/
		-10101	1/
	21.53		2)
	21,23	0/01-1	Y
	37,41	10-107	V
-	17 17	1.0101	V

4	23,3	0[-11]	V
	29,61	-11101	1
	45,61	1-1101	V
	53,61	11-101	V
万次:			
40.	1,5,9,13	000	D.
1	119,5,13	0001	P2.
		0 101	23 /
2	5,13,7729		POR V
		- D-lol	
	5,21,13,29	0101	/ Y
		0/01	
	5,37,13,45	-0-101	Jan V
	5,37,21,53	0[0]	
3.	13,29,45,61	1101	1/
	13,45,29,61	1101	
	21,29,23,31	01-1-1	73
	21,29,53,61	-1-101	V
	21,53,29,11	-1-101	V
		1=0 110	
-	37,53,45,41	120	1
C .			
杨次	5,13,37,29,21,0	10 10	
	53,61		
Water State	J.13.,21,29,	-4101	74.
	2 52 45 (1	4 ,01	
	37,53,45,61	101	
	5,37,21,53	101	
	13,29,45,61		
-	The state of the s		

24. 2h. 1. 5/1. 15 - 2 . 31. 37, 53, 45, 6 1													
	11	15	9	13	21	23	31	37	4	53	161	29	
P1 (21, 23)					X	X							
D2(15,9,13)	X	X	100	×									
P3(21,29,23,31)					X	X	0					X	
P4 C5, 13, 21, 29,		X		X	X			00	62	(2)	Q	×	
37,53, 45,40					1				1				
7,4													
} -1	P2+ P3+P4, P2. P3.P4.												
:.F(U,V,W,X,Y,Z)= 000 +0 -1-1+10													
= UV YZ+ UV VXZ+ XYZ.													
2010121													