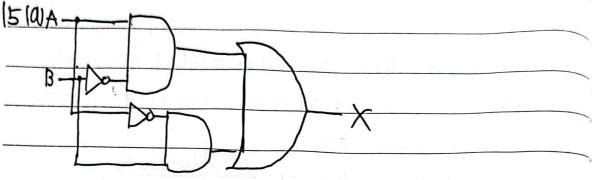
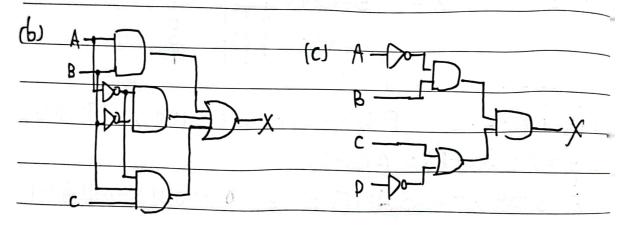
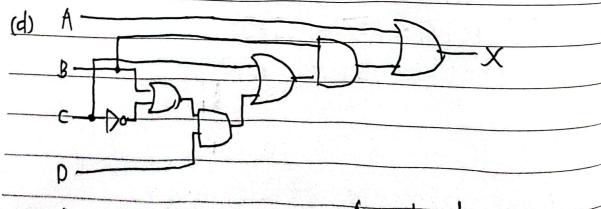
5. (a) A=1, B=1 (b) A=1, B=0, C=1 (c) A=0, B=0 (d) A=1, B=0, C=1 (e) A=1, B=1, c=0 (f) f=1, B=0 (9) A=1, B=0, C=0 => (A+B)·c+B 6 (a) B=1 B= X=1, B=0 B=: (b) X= A·B·C , 只有 A=0, B=0, C= 1日 X=1 其余为0 (c) X = A(BC+B) = A(B+C)A=0时 X为0, A=1时只有B,C 1全为0时 X=0其全为1 (d) $X = B + A \overline{A} = B$, B = 1 B + X = 1 B + B = 0 B + X = 0(e) X = BC (BC+A) = ABC = A(B+C)A=087X=0. A=187 B C 1.X

(8) (a) Involution (b) Distributive, Demorgan's Theorems, Complement (c) Idempotency (d) Complement (e) Absorption (f)

A = ABCD (b) $X = \overline{A}$ (c) X = A + B (d) X = A+B+CA = ABCD (b) A = AB+C (c) $A = \overline{A}B$ (d) A + B) C = X







18:(a) A	В	A + B	A 42	3	AB.	
	0		0		0	
1				0	0	
O	0	10	Ó	Ö	0	

	(<u>ф</u>	(9)				
(C) A B C AB-	-Bc	A+B)	(A+B)(B+c)				
		0					
1 1 0		0	6				
0 0 1		0	0				
101	5						
0 1 1	1	·					
and the Bharatet							
21. (a) BD+B(D+E)+DCD+F)							
= BD+BD+BE+DD+DF							
= BD+ BE+ DF							
$=B(D+E)+\overline{D}F$							
(b) ABC+(A+B+C)+ABCD							
= ABC+ABC+ABCD							
TAB (C+CD)	`\						
$= \overline{AB}(C+D)$							
(c) (B+BC)(B+BC)rB	(c) (B+Bc)(B+Bc)(B+D)						
= B(B+C)(B+D)							
= B(B+cp)							
= B+BCD							
<u>=B</u>	4	4					
(d) ABCD+ AB(CD)+	ABICD						
= ABCO + AB(C+D)	+	All the sales					
= AB(cD+cD)+(AF	\overline{S})CD+	ABCD					
= AB+ CD(AB+AE							
= AB+ CD							

(e) ABC [AB+ C(BC+AC)] =ABC [AB+ C.c.(B+A)] = ABC [AB+ 0] - (AB) · (AB) · C = ABC 24 (a) AB+ ABCD+CD (b) ABD (c) A+ABC+BD+BCD 26. (a) AB(C+E)(D+D) + ABCD+(A+A)(B+B)CD = ABCD+ABCD+ABCD+ABCD+ABCD+ABCD+ABCD (b) ABD = ABCC+E)D = ABCD+ ABED (C) ACB+B)CD+D) +(A+A)BD = ABD+ ABD + ABD + ABD 33.(9) A 0

38. AB CD 00 01, 11 10
OU ABOD ABOD ABOD
OI ABOD ABOD ABOD
ABOD ABOD ABOD ABOD
10 ABCD ABCD ABCD ABCD
THE THEO THE THEO
1 1
2/ (0) 7 5 4 5 0 4 2 0
36. (a) ABC+ABC+ABC
A(AB+C)(A+B+C)(A+B+C)
(b) ABC+ABC+ABC
CATBTO(A+B+C)(A+B+C)(A+B+C)(A+B+C)
(C) ABCD+ABCD+ABCD+ABCD+ABCD+ABCD
CA+B+C+D)(A+B+C+P)(A+B+C+D)(A+B+C+D)(A+B+C+D)(A+B+C+D)
CATOTICTUICATE TO THE CONTRACTOR AND CONTRACTOR OF THE CONTRACTOR
(A+B+C+D)(A+B+E+D) (A+B+E+D)

(d) ABCD+ABCD+ABCD+ABCD+ABCD+ABCD
CATBTC+D)(ATBTC+D)(ATBTC+D)(ATBTC+D)(ATBTC+D)
(ATB+C+D)(A+B+Z+D)(A+B+C+D)(A+B+Z+D)
44 HUABOD + ABOD
ABUP + ABOD + ABOD + ABOD
16) ABOD + ABOD + ABOD + ABOD
DE RAPOSALA DE RAPOSALA CO
(d) ABCDT ABCD + ABCD + ABCD
18) ABCD+ABCD+ABCD+ABCD+ABCD
- ABCO + ABCO + ABCO + ABCO + ABCO
46.
AB 00 01 11 10
00 (1)
01
75-2/77-
ABCO+ ACD+ BCO+ ABC+ ABD

44. (a) A+ BC+CD
(b) ABC + ABC
CO BC+ACD
(d) BC
(e) B+P
49. (a) CAB+C+D)(A+B+C+D)(A+B+C+D)
(b) (A+W)(A+B)(B+C)(C+D) t1 (X+W)(X+F)(F+Z)(Z+W)
51. (X+W) (X+Y) (Y+Z) (Z+W)
AB CD 00 01 10
00 0
01 (6/6)
(A+c+D)(A+B+c)(B+c+D)(A+B+D)(A+B+c+D