A) f(A,B,C,D)=(A+C)+((A+B+C)D)

 $(A+C)+AB^{\prime}(+D^{\prime}=A+C+D^{\prime}=A(B+B^{\prime})(C+C^{\prime})(D+D^{\prime})_{+}((A+A^{\prime})(B+B^{\prime})(D+D^{\prime})_{+}$

+ D'(A+A')|B+B')((+C') = A(B(D+BCD'+BC'D+BC'D'+B'CD+B'CD'+BC'D)

+ ((ABD+ ABD'+ABD+ ABD'+ ABD+ ABD+ ABD+ ABD)+

D'(ABC+ABC+ABC+ABC+ABC+ABC+ABC+ABC)

= ABCD + ABCD+ABCD+ABCD+ABCD+ABCD+ABCD+

ABCD+ABCD+ABCD+ABCD+ABCD+ABCD

= Em(455,8,8,4,09,1,11,1515,18,10)

B) f(A, B, C,D) = (A & B) + ((A+B) + CD)

= (AB+AB) + ((AB).(C+D)) = (A+B)(A+B)+ AB+ + ABO

= A'B' + AB + AB'C' + AB'D = A'B'(C+C)(D+D') + AB(C+C)(0+D')

+ AB'C'(D+D') + ABD(C+C') = A'B'CD + A'B'CD + A'B'C'D', ABCD

+ABCO+ ABCO+ABCO+ABCO+ABCO+ABCO

2

B) F(A,B,C) = PB(P-BC)0	<u> </u>
B) $f(A,B,C) = PB(P+BC)$ Around, $df = BD \circ B'$ df	= A'Do = A'
BICILE A	10 1 df
0)0/13 A1	6 1
A jui	0 0
() /) ()	1119
T= AB(A) AB(A+B')	- 1 4 7
AC CENTRACTION OF AB (A'+B')	· Claim
A) C	
$A)+(my)=m(m\oplus y)+mz(m+y)$	ع ج
	······································
M (M'y+MY')+ MZ+MY'Z = NÝ	MZ = MY (2+2')+ MZ(Y+Y')
,	
- myz+my'z'+ myz => 50	
= ~y'z+~y'z'+ ~yz => 50,	D = Em(534) = TTM(0,559
= (m+x+z)(m+x+z')(m+x'+z)(m+x'+z)(m+x'+z)	D = Em(50) = TT M(0),5,5
= myz+my'z'+ myz => 50,	D = Em(50) = TT M(0),5,5
$= \frac{my'z + my'z' + myz}{= > 50}$ $= \frac{(m+y+z')(m+y'+z)(m+y'+z)}{(m+y'+z')(m+y'+z)(m+y'+z')}$ $= \frac{my'z + my'z' + myz}{(m+y'+z')(m+y'+z)}$	D = \(\int \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \ome
= \(\lambda\gamma'z' + \lambda\gamma'z' + \lambda\gamma'z' + \lambda\gamma'z' + \lambda\gamma'z' + \lambda'z'	D = \(\int \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \ome
= Myz+my'z'+ myz => 50 = (m+y+z')(m+y+z')(m+y'+z)(m+y'+z') B) f(w1m1)/92)= my'+y'z'+8/z'= my (onsensus = my/zw+my'zw/4my'z'w+my'z'w = Em(0)()(50)()()()()	D = \(\int \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \ome
= \(\lambda\gamma'z' + \lambda\gamma'z' + \lambda\gamma'z' + \lambda\gamma'z' + \lambda\gamma'z' + \lambda'z'	D = \(\int \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \ome
= Myz+my'z'+ myz => 50 = (M1)(2)(M+y+z')(M+y'+z)(M+y'+z') B) f(W1M1)(2)= My'+y'z'+8(z'= My Consensus = My'zw+My'zw'4 my'z'w+My'z'w = EM(0,1,50,1,1,1,1,1)	D = \(\int \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \omega \) \(\tag{\int} \omega \) = \(\tag{\int} \omega \) \(\tag{\int} \ome

$$\begin{bmatrix}
 B' + E' + A'
 \end{bmatrix}
 \begin{bmatrix}
 C'E' + D'A
 \end{bmatrix} = 1$$

$$\begin{bmatrix}
 A'BE
 \end{bmatrix}
 \begin{bmatrix}
 C'E' + D'A
 \end{bmatrix}
 = 1 = 7 ABED'A = 1 = 7 BED'A = 1 = 7 BE$$

^							And the second s
A	B	1 0	D	1 F	16	1 H.	
0	0	0	10	1	0		11 1/10'
		O	1	1	6	1	H = A'+B'
	}		0	0		1	F=[(ADBDC)']=ADBDC
		1	1	0	10	11	() = [(MAD) ()] = MAD () ()
0	1	1	^		6	-	
				9	1.0	1.	G= (A'+B').D'. ((COD) + (ABBO)+A')
		0	6	1	16) (
			1	1	0		
	0	0	0	0	ļļ		
		0	1	0	6	1:	
		1	1/	1	0	1	
	7/	.0.	6	1	0		
`		C		1	6	0	
		-	1	0	2		
		1			,		