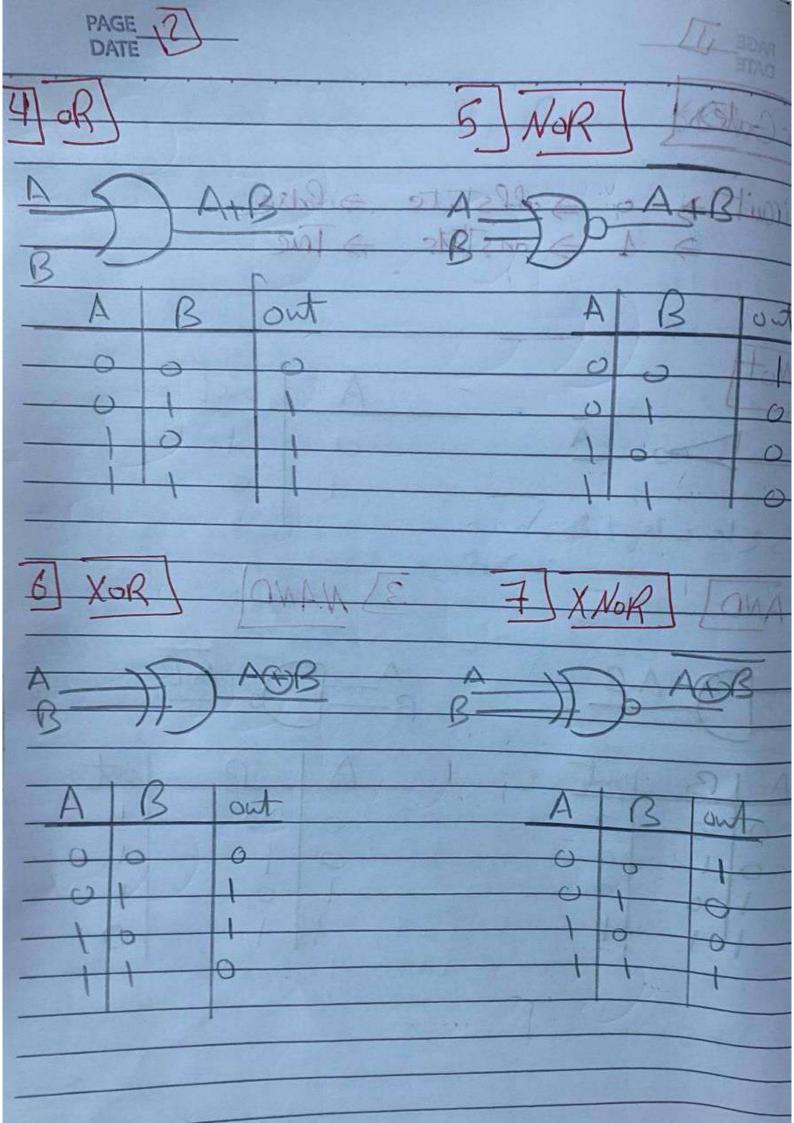
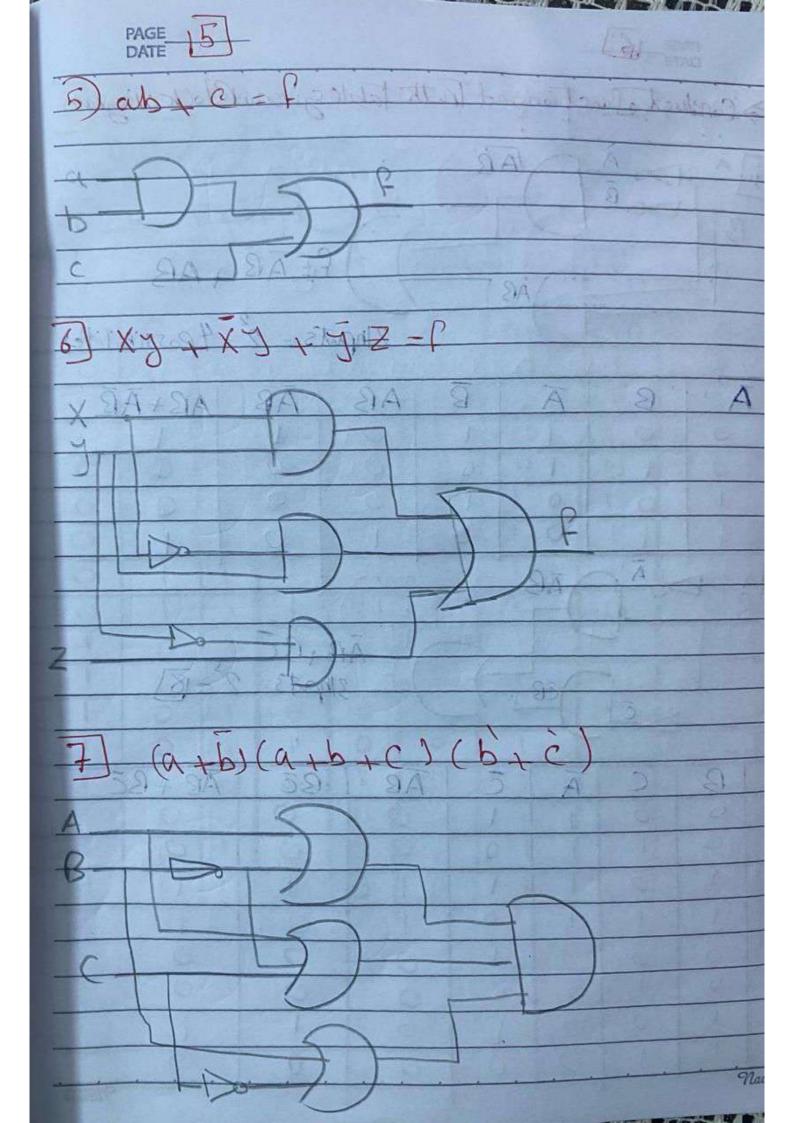


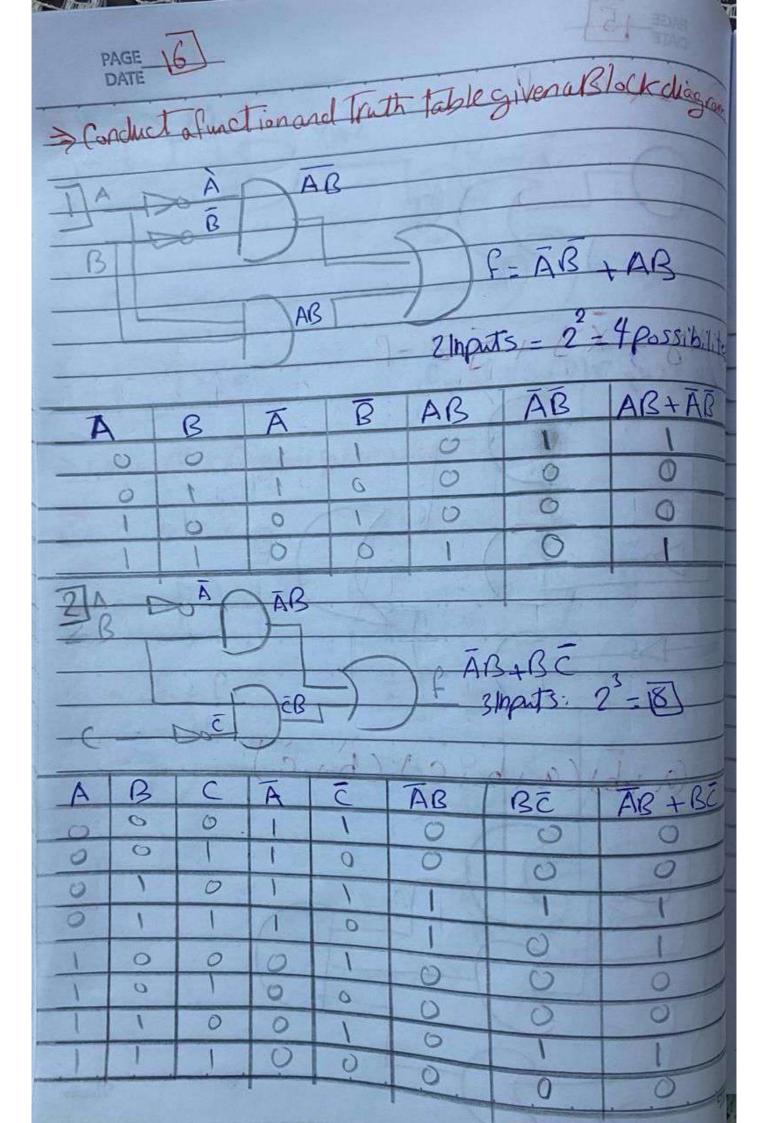
PAGE I Loyic Gates () Circuit > 0 > offstate > Palse 1 > on state > True ow Nawas

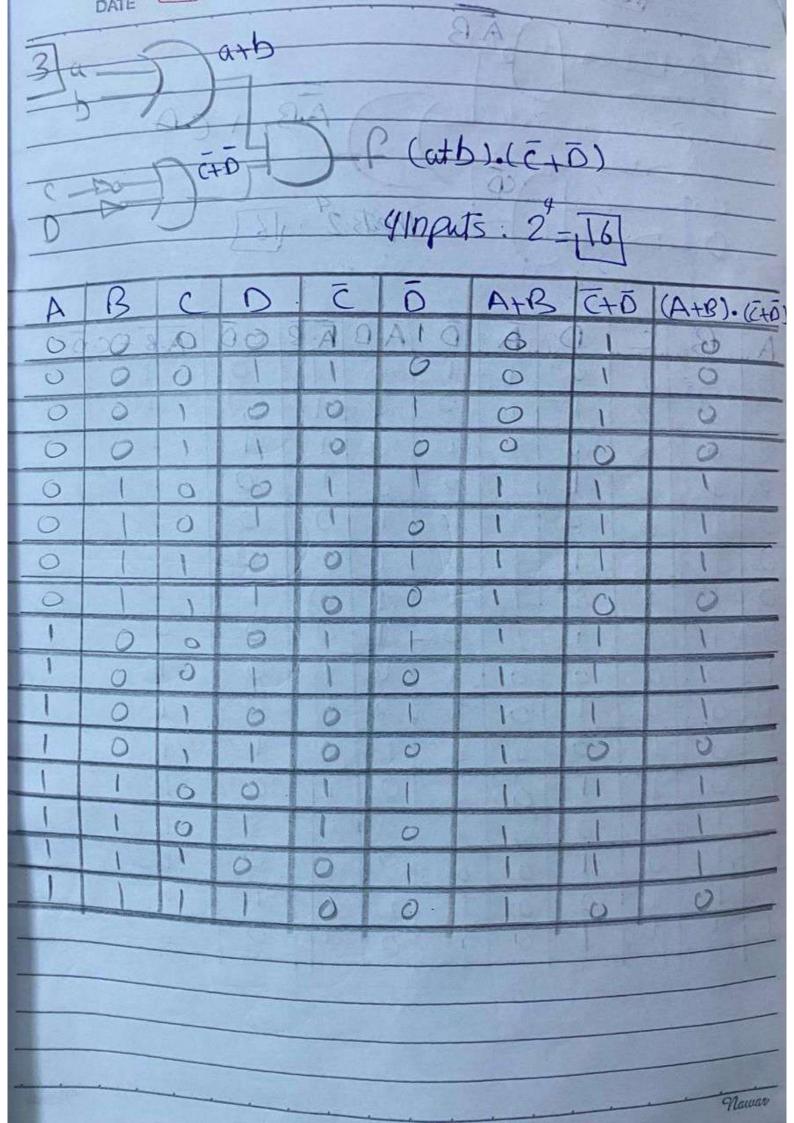


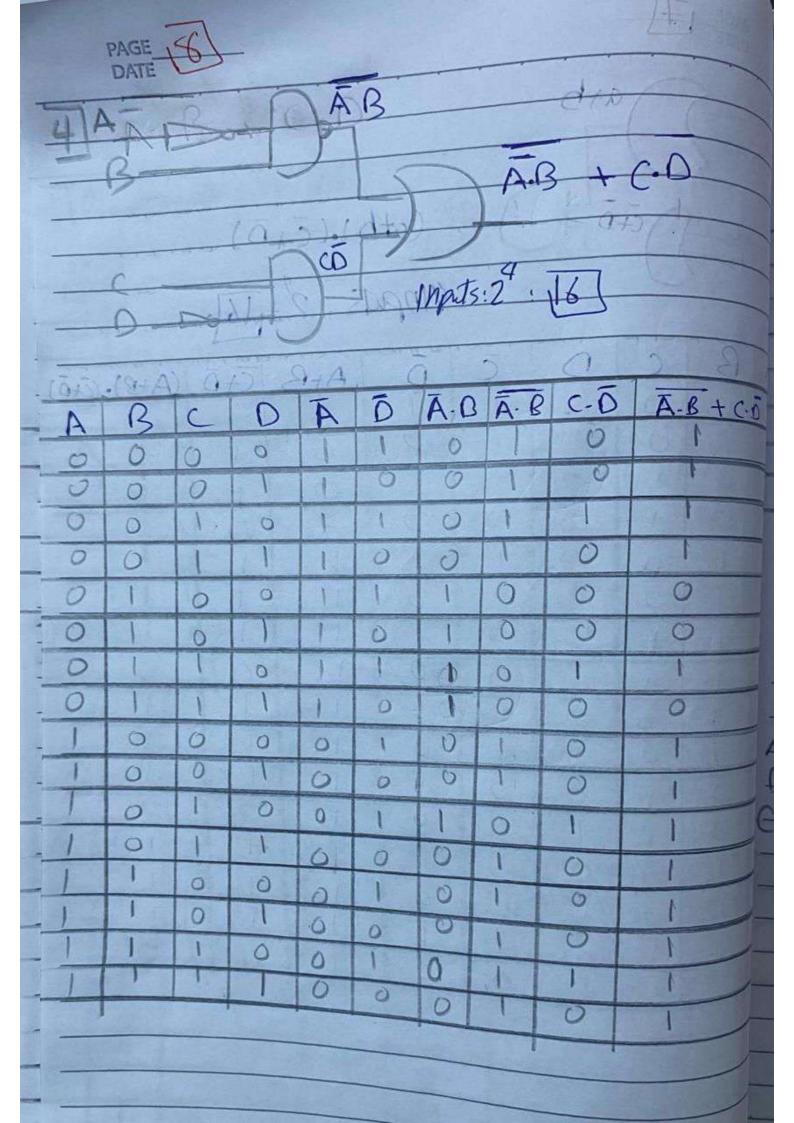
> write a function given a Block Diagram: F=a.b.c EX+KX=7 F=(a+b)(ab) P=(X+y)(X+Z) Nawar

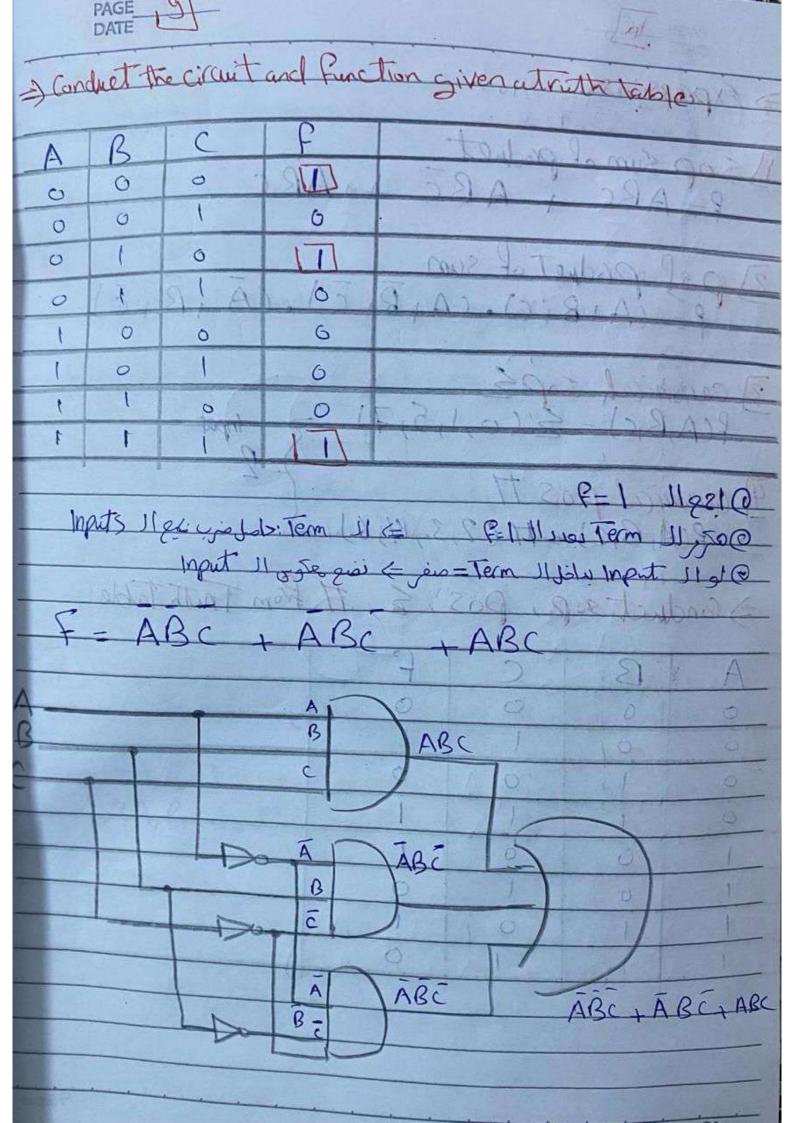
F= (XJ+21X +w+ XJ2 Naw aBlack Diagram given above tion:

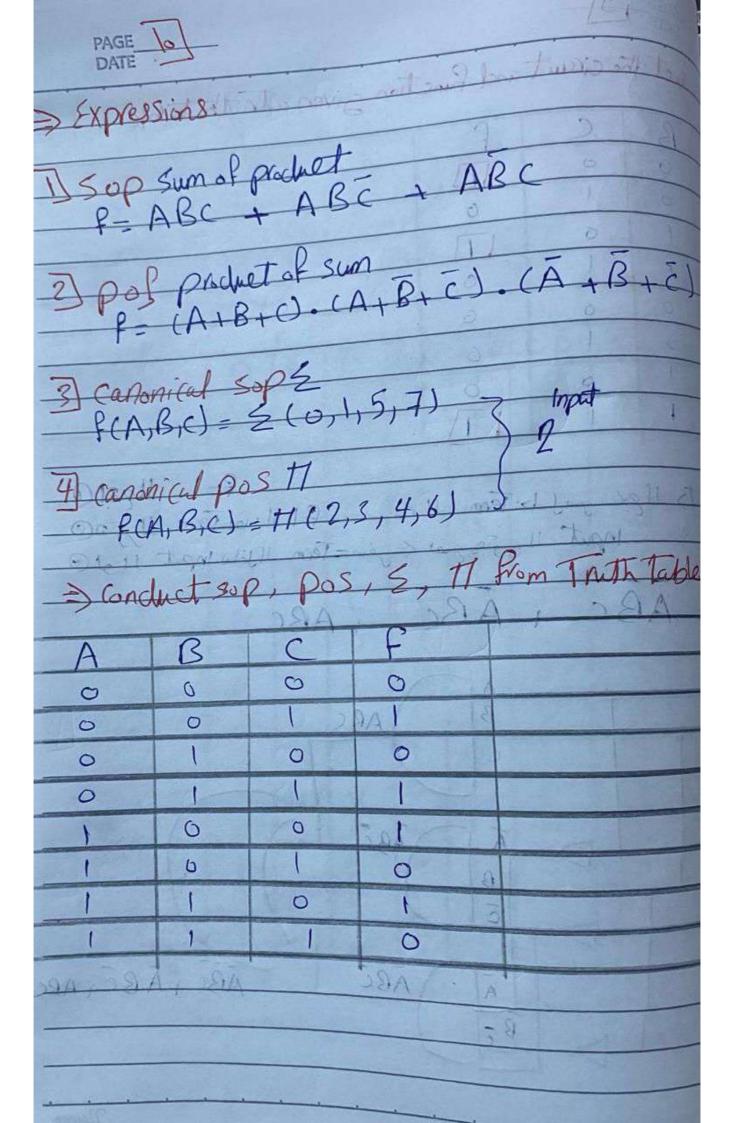




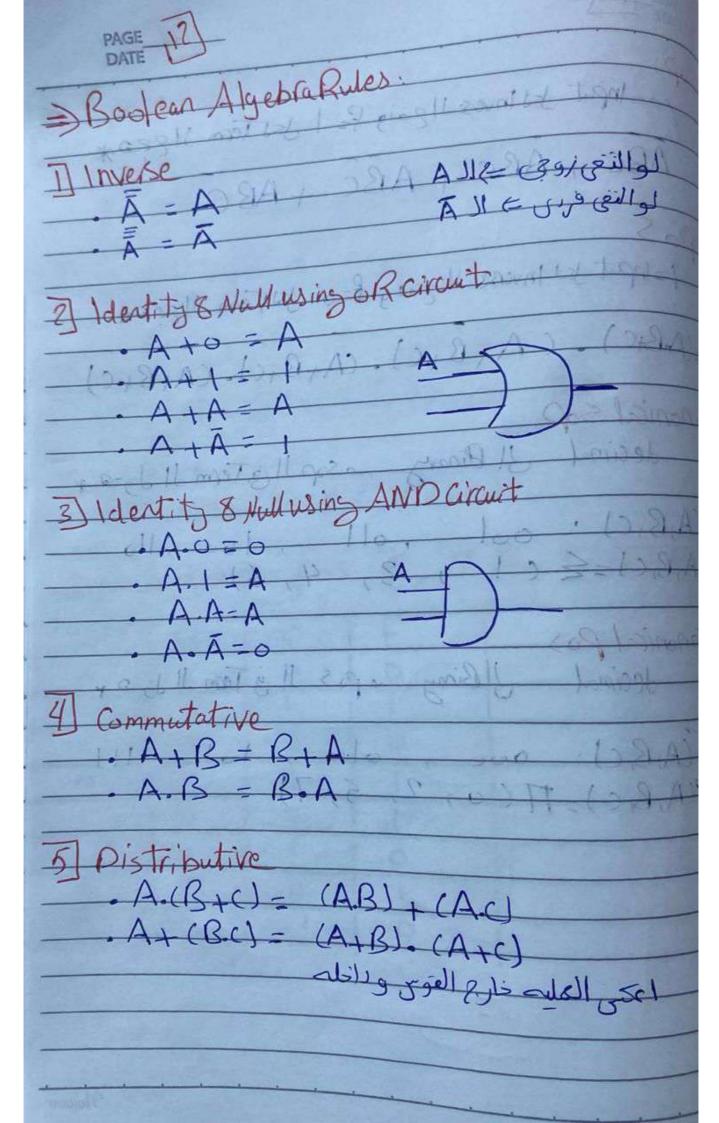




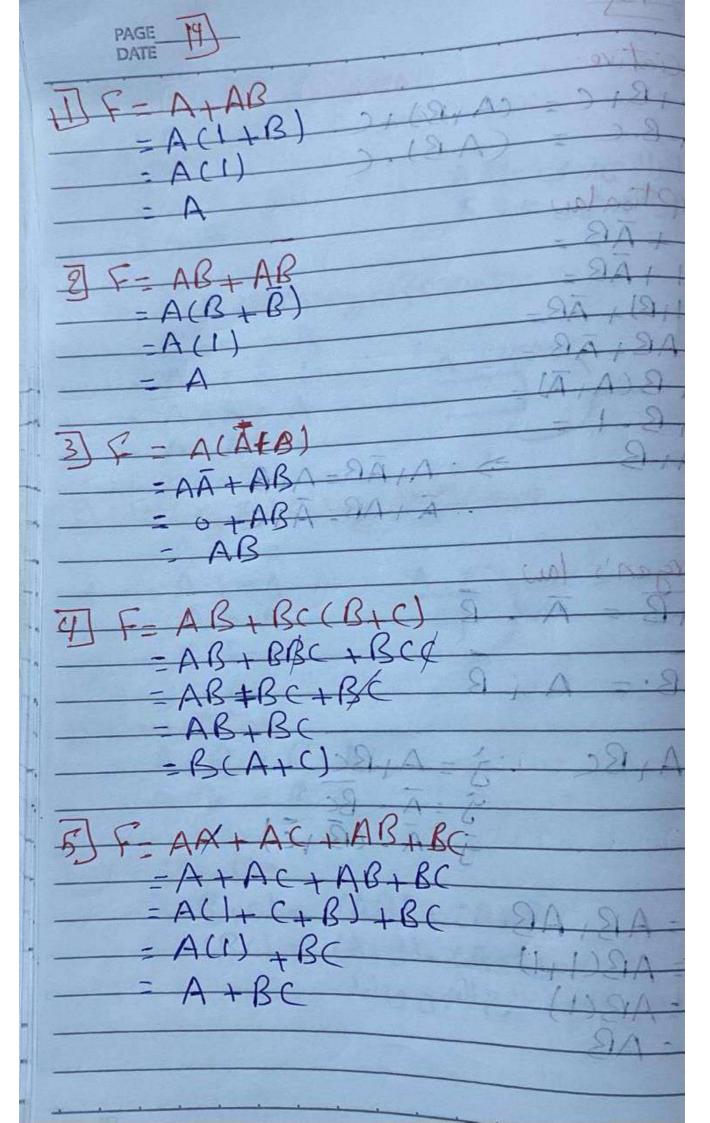




P:
po=Input by Invest 1 going F= 1 by Term 11880* F-ABC+ABCL+ABCAA 2) Pos 1=1pat su Inverse Il gaig f-o su Term 1/200x F-(AB+C). (A+B+C). (A+B+C) 3) canonial sop FCA, B, C): Ool, oll, loo Allo FUA, B, C)= = (1), 13, 4, 6) 1 A 4) Canonical pos
decimal Blinay so pos Il & Term Il Jose F(A,B,C): 000, 014, 1100, A111 F(A,B,C)=17(0,2,5,77) nity of the DA) 18A) - 6,20-A A+(B() = (A,B) - (A+C) 12 tale of star ellar Mawas



Associative. A+B+C= (A+B)+C A.B.C = (A.B). Absorption law · A + AB = A-1 + AB = A-(1+B) + AB= A+AB+AB= A+B(A+A)= A+B-1= A+B => : ALAB=ALB : A+AB= A+Q 8) De Morgan's law : 3 = A+BCD (A) IF y=A+BC 3 = A . BC 818ALAALA 10/18 7= AB+ AB = ABCI+I) = AB(1) - AB



PAGE 15 101. 6) AB+A(A+C)+B(A+C)(A) AB+ AB+AC+BA+BCAA AB+A+AC+BA+BC(DA) AB+A+AC+BC DEALDONA A(B+I+C)+BC A(1) +BC (A+A) A+BC (1)29 ACCIDIA ABC

ACCIDIA AC(A) (Ā, 05). (A, 05). ACTA-CITCH -05) (ATO) AC+A+AC A+C(AAA)O+O) (A1O)-= A + C(1) = A + C(A, (A, O,)) = 8 A.B.C.+ AB.C.+ A.CAIAI AB(C+C) + AC AB(A) A ACA ACA ACA ACA JALOSA, SALOSA 0A+07A+11,000A

PAGE 16 +AB) +AB ACC+ ACO + AAC + ACD + ADDA ACD+ AD + ACD + AC + ACD + AD ACCD+1)+AZ

AC+ACO+AO (D+C). A(A+B)(AB) + (A+B)(AB) (A+B) + (AB) + (A+B) + AB (A+B)+(AB+(A+B)+ AB A+B+(A+B+ AB+ AB AAB + AB 1+B+A(B+B) 1+B+A(1) 1+B+A

> Wing NAND Gate to get ang Gaz A+B AIB

