Barış Ayyıldız 1901042252

3) F(A,B,C,D) = B'D+A'D+BD

A	B	С	D	minterm	max term
000000000000000	000011110000111	00<-000000	000000000000000000000000000000000000000	INTERPRETATION TO DID DID DID DID DID DID DID DID DID DI	A+B+C+D M13 A+B+C+D M14 A+B+C+D M15

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

= (AB'CD+AB'C'D+A'B'CD+A'B'C'D)+ (A'BCD+A'BC'D+A'B'CD+A'B'C'D) + (ABCD)+ABC'D+A'BCD+A'B'C'D)

= AB'CD + ABC'D + A'B'CD + A'B'CD + A'BCD + A'BC'D + ABCD + ABC'D

= 5 (1,3,5,7,9,11,13,15), sum of minterm

= [(0,2,4,6,8,10,12,14), product of maxterm