

From the truth table of an n-variable function F	
For an input state with a function value of 1	For an input state with a function value of 0
A canonical product (minterm) is generated.	A canonical sum (maxterm) is generated.
If the value of a variable is 1 , it is unprimed. If the value of a variable is 0 , it is primed.	If the value of a variable is 0 , it is unprimed. If the value of a variable is 1 , it is primed.
Express F as a canonical sum-of-products .	Express F as a canonical product-of-sums .

$$F(A,B,C) = \Sigma m(1, 2, 3, 5, 7)$$

$$= A'B'C + A'BC' + A'BC + AB'C + ABC$$

001
010
011
101
111

$$= \pi M(0, 4, 6)$$

$$= (A + B + C) \cdot (A' + B + C) \cdot (A' + B' + C)$$

000
100
110