-> Tautology A+A of -> Tautology A. A =0 Expression is let tautology iff its dual is tautology sout note tone ton han gray * SOP and POS L-18 we have two way to represent function SOP and POS. * Function

Sop (Sum of Products)

> POS (Product of Sum) o SOP (disjunctive normal form) of Principal

Standard SOP E (A,B) = AB + AB) of DNP

Standard SOP E (A,B) = AB + AB) of DNP Gnonical f(A,B,C) = AB + BC + AC7 sof 4 (A,B,C,D) = AB+CD 11 M 10 38 SHIP IN THE PROPERTY OF THE PARTY OF THE PAR IC C- NARS A Room Loug. - 201 Man A Salar TOTAL CONTRACTOR

Pos (Conjunctive normal form)

SAA + SAA + ANTEGRA

Every var must be present.

$$\begin{array}{c}
AB[c+\overline{c}] + (A+\overline{A})Bc \\
ABC+AB\overline{c} + ABC+\overline{ABC} \\
ABC+AB\overline{c} + \overline{ABC}
\end{array}$$

AB
$$(C+\overline{C})$$
 $(D+\overline{D})$ + $(A+\overline{A})$ $(B+\overline{B})$ $\overline{C}D$

+ (AIB) = Mo+ma

$$f(A,B) = \sum_{m} (0,3) \sum_{m} (3,0)$$

$$f(A,B,C) = ABC + ABC +$$

$$f(A_1B) = AB + BC$$

arrive The

Product of sun (A+B) . (A+B) (A+ B+ C.E). (A+B+ C.E) (A+B+c) (A+B+c) . (ABC) (ABC) = TTM(0,1,6,7) f(ABC,D) = (A+B) . (C+D) (A+B+C+D). (A+B+C+D). (A+B+C+D (A+B+ C+ D) AB+C+D). (A+B+C+D) . (A+B+C+D) (A+B+C) TM(4, 7,3) AB AB AB AB AB AB AB AB mintermy moxtem

/The Goo

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Standard pos -> every term must be maxterm.

1(A,B) (A+B). (B+E)

=> TO(TIME 4,5,2,3)

=> MM (4,5,1) do

+(A,B,C,D). (A+C). (B+E)

TM (8,11, 12, 13, 1, 3,9)

A B + (A, B) $+ (AB) = \overline{AB} + \overline{AB}$ 0 0 $+ (AB) = \overline{AB} + \overline{AB}$ 0 1 $+ (AB) = \overline{AB} + \overline{AB}$ 1 0 $+ (AB) = \overline{AB} + \overline{AB}$

Maxterm out OFF POS