













•	Vai	riab In tr	les appears ex rue or inverted for	actly once in each maxterm rm (but not both)
A 0 0 0 1 1 1	B 0 1 1 0 1 1	C 0 1 0 1 0 1 0 1 0 1	$\begin{array}{c} maxterms \\ A+B+C & M0 \\ A+B+C' & M1 \\ A+B'+C & M2 \\ A+B'+C' & M3 \\ A'+B+C & M4 \\ A'+B+C' & M5 \\ A'+B'+C & M6 \\ A'+B'+C' & M7 \end{array}$	F in canonical form: $F(A,B,C) = \Pi M(0,2,4)$ $= M0 \cdot M2 \cdot M4$ $= (A+B+C)(A+B'+C)(A'+B+C)$ canonical form F(A,B,C) = (A+B+C)(A+B'+C)(A'+B+C) $= AB + C$









			•			
$(X + Y)' = X' \cdot Y'$	х	Y	Х'	Y'	(X + Y)'	X' • Y'
NOR is equivalent to AND	0	0	1	1	1	1
with inputs complemented	0	1	1	0	0	0
	1	0	0	1	0	0
	1	1	0	0	0	0
(X • Y)' = X' + Y'	X	Y	Χ'	Y'	(X • Y)'	X' + Y'
NAND is equivalent to OR	0	0	1	1	1	1
with inputs complemented	0	1	1	0	1	1
	1	0	0	1	1	1
	1	1	0	0	0	0









