

			-A		
				it varis (A,B,	c, D) are 1's.
Ssion	that	is a	1 when 1	+ var's (A	B, C) are 0's.
					3=0 & C=1
+B make	is A	5 +B=	um tern	n A=1 8	$B = \emptyset$
		A+B			has 2=8 raws
A	B	<u>C</u>	A+B	(A+B)	X=(A+B).C
0	0	0		0	0
0	0	0		0	0
Control of the Contro	The state of the s	O I			0
	ssion  A I  make  X =  Firp  A  O  O  O	ssion that $ABC$ $ABC$ $make$ $+B$ $X = (ABC)$ $ABC$	A+B+C ssion that is a $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{B}$ $\overrightarrow{C}$ $\overrightarrow{A}$ $\overrightarrow{B}$ $\overrightarrow{C}$ $\overrightarrow{A}$ $\overrightarrow{B}$ $\overrightarrow{A}$ $\overrightarrow{B}$ $\overrightarrow{C}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{B}$ $\overrightarrow{C}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{A}$ $\overrightarrow{B}$ $\overrightarrow{C}$ $\overrightarrow{A}$ $A$	ssion that is a 1 when 1 $\overline{A} + \overline{B} + \overline{C}$ $ABC \text{ is product}$ $make ABC = 1 \Rightarrow$ $+B \text{ is sum term}$ $make A+B=0 \Rightarrow$ $X = (A+B)C$ $F \text{ inputs} = 3 \Rightarrow T$ $ABC  A+B $ $OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO$	ssion that is a 1 when 1+ var's (A) $ \overline{A} + \overline{B} + \overline{C} $ $ \overline{ABC} \text{ is product term} $ $ make \overline{ABC} = 1 \Rightarrow A = 1 \text{ g. g.}   +B \text{ is sum term}   make \overline{A+B} = 0 \Rightarrow A = 1 \text{ g. g.}   X = (\overline{A+B}) C   x = (A+$

- ₹ (b) ABCD + ABC = DCBA + CBA

  Commutative Law
- (c) AB(CD+EF+GH) = ABCD+ABEF+ABGH

  Distributive Law
- (8) (6) AĀB + ABĒ + ABĒ = ABĒ

  Rule 8: X.X = 0
  - (e)  $A\bar{B} + A\bar{B}C = A\bar{B}$   $\Rightarrow$  Rule 10: X + XY = X
  - (g)  $ABC+\overline{AB}+\overline{ABCD}=ABC+\overline{AB}+\overline{D}$  $\Rightarrow$  Rule 11:  $X+\overline{X}Y=X+Y$