

$$f_2 + f_4$$

=

$$F \ T \ F \ T = f_5(A, B)$$

#10

TT	TF	FT	FF	
T	F	T	T	$A \Rightarrow B$
				$f_6(A, B)$
				\downarrow
				TF TT

$$\overline{A} = A \uparrow A$$

$$AB = (A \uparrow B) \uparrow (A \uparrow B)$$

$$A + B = (A \uparrow A) \uparrow (B \uparrow B)$$

$$AB = (\overline{AB}) \uparrow (\overline{AB})$$

$$AB = (AB) + AB$$

$$AB = AB$$

$$\overline{AB} = \overline{A \uparrow B} = \overline{AB} = \overline{A} + \overline{B} \quad \#11$$

$$A \downarrow B = \overline{A + B} = \overline{A} + \overline{B}$$

$$A \uparrow B = (\overline{AA}) \uparrow (\overline{BB})$$

$$A \uparrow B = (AA) \uparrow (BB)$$

$$A \uparrow B = A + B$$

$$\overline{A} = A \uparrow A$$

$$\overline{A} = (\overline{A}) + (\overline{A})$$

$$\overline{A} = \overline{A}$$

★
Substitution