15) $\overline{(A \uparrow A) \downarrow (B \uparrow B)} \equiv (\overline{\overline{A} \downarrow \overline{A}}) \uparrow (\overline{\overline{B} \downarrow \overline{B}})$

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

$\overline{A \downarrow B} \equiv (\overline{\overline{A}}) + (\overline{\overline{B}})$

$\overline{A} \ \overline{B} \equiv \overline{A} \ \overline{B}$

16) $A \Rightarrow B$ $f_1(A,B) + f_3(A,B + f_4(A,B)$

TT	TF	FT	FF
T	F	T	T