

$$A \& B \leftrightarrow (A | B) | (A | B)$$

A	B	$A \& B$	$A   B$	$(a   b)   (a   b)$
T	T	T	F	T
T	F	F	T	F
F	T	F	T	F
F	F	F	T	F

$$A \& B \leftrightarrow (A ! B) ! (A ! B)$$

! => NOR

| => OR

A	B	$A \& B$	$A ! A$	$B ! B$	$(a ! a) ! (b ! b)$
T	T	T	F	F	T
T	F	F	F	T	F
F	T	F	T	F	F
F	F	F	T	T	F