

























Logical Connectives

Prof. Philip Penance –Version: January 16, 2005.

		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	Decimal
p	q	T	$p \vee q$	$p \leftarrow q$	p	$p \rightarrow q$	q	$p \leftrightarrow q$	$p \wedge q$	$p \uparrow q$	$p \underline{\vee} q$	$\neg q$	$p \wedge \neg q$	$\neg p$	$q \wedge \neg p$	$p \downarrow q$	\perp	Connective
1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	Binary
1	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0	0	0	
0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	
0	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	
		E	$P \cup Q$	$P \cup Q'$	P	$P' \cup Q$	Q	$(P \Delta Q)'$	$P \cap Q$	$P' \cup Q'$	$P \Delta Q$	Q'	$P \setminus Q$	P'	$Q \setminus P$	$P' \cap Q'$	\emptyset	Set
																		Gate
																		Venn
		Truth	Disjunction OR	Implication IF	Antecedant	Implication ONLY IF	Consequent q	Equivalence XNOR	Conjunction	NAND	XOR	Negation	Difference	Negation	Difference	NOR	Falsehood	Name