Nom	Symboles		Notation	Table de vérité		rité	Propriétés		
NOT	A — Q	A 1 Q	$Q = \overline{A}$	A 0 1		1 0			
AND	AQ	A & Q	Q = A. B	A 0 0 1 1 1	B 0 1 0 1	A. B 0 0 0 1	Commutativité Associativité Élément neutre "1" Élément absorbant "0" Idempotence Complémentation Double complémentation	x.y = y.x (x.y).z = x.(y.z) x.1 = x x.0 = 0 x.x = x x.x = 0 x.x = x	
OR	AQ	A <u>≥1</u> _Q	Q = A + B	A 0 0 1 1 1	B 0 1 0 1	A + B 0 1 1	Commutativité Associativité Élément neutre "0" Élément absorbant "1" Idempotence Complémentation	x + y = y + x (x + y) + z = x + (y + z) x + 0 = x x + 1 = 1 x + x = x x + x = 1	
NAND	AQ	A	$Q = \overline{A.B}$ $= \overline{A} + \overline{B}$	A 0 0 1 1 1	B 0 1 0 1	1 1 1 0	$ \frac{1}{1} $ $ \frac{1}{1} $ $ \frac{1}{1} $		
NOR	AQ	A <u>≥1</u>	$Q = \overline{A + B}$ $= \overline{A}.\overline{B}$	A 0 0 1 1 1	B 0 1 0 1	$ \begin{array}{c c} \hline A+B\\ 1\\ 0\\ 0\\ 0\\ \end{array} $	$\overline{A + B + C + D} = \overline{A}.\overline{B}.\overline{C}.\overline{D}$		
XOR	AQ	A =1 _Q	$Q = A \oplus B$ $= \overline{A}. B + A. \overline{B}$	A 0 0 1 1 1	B 0 1 0 1	A⊕B 0 1 1			
NXOR (XNOR)	AQ	A =1 PQ	$Q = A \odot B$ $= \overline{A \oplus B}$ $= \overline{A} \cdot \overline{B} + A \cdot B$	A 0 0 1 1 1	B 0 1 0 1 1	A⊙B 1 0 0 1			

$$A + A.B = A$$

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

$$(A + B).(A + C) = A + B.C$$

$$A + A.B = A.(1 + B)$$

= $A.1$
= A

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

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

$$= A + B.1$$

$$= A + B$$

$$(A + B). (A + C) = A.A + A.C + B.A + B.C$$

= $A + A.C + B.A + B.C$
= $A.1 + A.C + B.A + B.C$
= $A.(1 + C + B) + B.C$
= $A.(1) + B.C$
= $A + B.C$