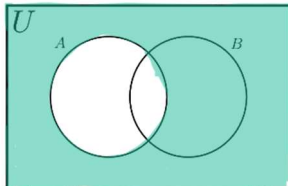

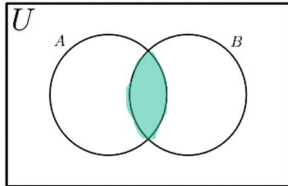

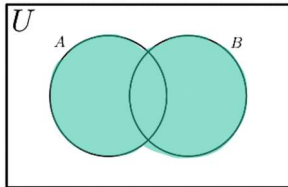

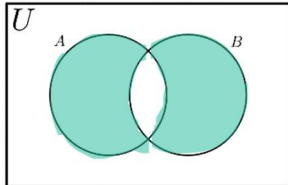

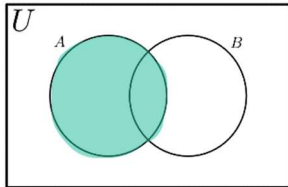
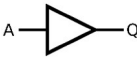
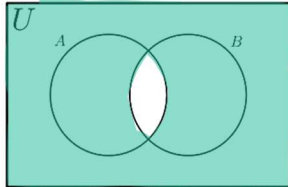

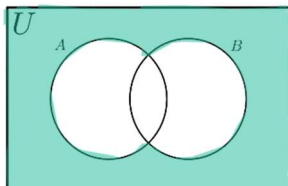

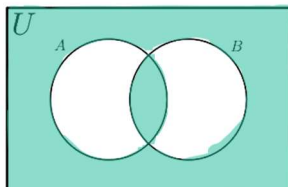



Tipo	Español	Notación Matemática	Álgebra Booleana	Conjuntos¹	Diagrama de Venn	Circuitos²	Python	Tabla de Verdad															
NOT	Negación	$\neg p$	\bar{P}	A^C - A'			not P	<table><tr><th>p</th><th>$\neg p$</th></tr><tr><td>T</td><td>F</td></tr><tr><td>F</td><td>T</td></tr></table>	p	$\neg p$	T	F	F	T									
p	$\neg p$																						
T	F																						
F	T																						
AND	Conjunción	$p \wedge q$	$P \cdot Q$	$A \cap B$			P and Q	<table><tr><th>p</th><th>q</th><th>$p \wedge q$</th></tr><tr><td>T</td><td>T</td><td>T</td></tr><tr><td>T</td><td>F</td><td>F</td></tr><tr><td>F</td><td>T</td><td>F</td></tr><tr><td>F</td><td>F</td><td>F</td></tr></table>	p	q	$p \wedge q$	T	T	T	T	F	F	F	T	F	F	F	F
p	q	$p \wedge q$																					
T	T	T																					
T	F	F																					
F	T	F																					
F	F	F																					
OR	Disyunción	$p \vee q$	$P + Q$	$A \cup B$			P or Q	<table><tr><th>p</th><th>q</th><th>$p \vee q$</th></tr><tr><td>T</td><td>T</td><td>T</td></tr><tr><td>T</td><td>F</td><td>T</td></tr><tr><td>F</td><td>T</td><td>T</td></tr><tr><td>F</td><td>F</td><td>F</td></tr></table>	p	q	$p \vee q$	T	T	T	T	F	T	F	T	T	F	F	F
p	q	$p \vee q$																					
T	T	T																					
T	F	T																					
F	T	T																					
F	F	F																					
XOR	Disyunción exclusiva	$p \underline{\vee} q$	$P \oplus Q$	$A \triangle B$			P ^ Q	<table><tr><th>p</th><th>q</th><th>$p \underline{\vee} q$</th></tr><tr><td>T</td><td>T</td><td>F</td></tr><tr><td>T</td><td>F</td><td>T</td></tr><tr><td>F</td><td>T</td><td>T</td></tr><tr><td>F</td><td>F</td><td>F</td></tr></table>	p	q	$p \underline{\vee} q$	T	T	F	T	F	T	F	T	T	F	F	F
p	q	$p \underline{\vee} q$																					
T	T	F																					
T	F	T																					
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¹ Para los conjuntos y los diagramas de Venn, usaremos A y B, que es la notación usual en conjuntos.

² Para esta hoja, usamos la Z para representar la salida de la puerta lógica.

Tipo	Español	Notación Matemática	Álgebra Booleana	Conjuntos ³	Diagrama de Venn	Circuitos ⁴	Python	Tabla de Verdad															
Buffer	Afirmación	p	P	A			P	<table><tr><th>p</th><th>p</th></tr><tr><td>T</td><td>T</td></tr><tr><td>F</td><td>F</td></tr></table>	p	p	T	T	F	F									
p	p																						
T	T																						
F	F																						
NAND	-	$p \uparrow q$	$\overline{P \cdot Q}$	$(A \cap B)^c$ - $(A \cap B)'$			not (P and Q)	<table><tr><th>p</th><th>q</th><th>$p \uparrow q$</th></tr><tr><td>T</td><td>T</td><td>F</td></tr><tr><td>T</td><td>F</td><td>T</td></tr><tr><td>F</td><td>T</td><td>T</td></tr><tr><td>F</td><td>F</td><td>T</td></tr></table>	p	q	$p \uparrow q$	T	T	F	T	F	T	F	T	T	F	F	T
p	q	$p \uparrow q$																					
T	T	F																					
T	F	T																					
F	T	T																					
F	F	T																					
NOR	-	$p \downarrow q$	$\overline{P + Q}$	$(A \cup B)^c$ - $(A \cup B)'$			not (P or Q)	<table><tr><th>p</th><th>q</th><th>$p \downarrow q$</th></tr><tr><td>T</td><td>T</td><td>F</td></tr><tr><td>T</td><td>F</td><td>F</td></tr><tr><td>F</td><td>T</td><td>F</td></tr><tr><td>F</td><td>F</td><td>T</td></tr></table>	p	q	$p \downarrow q$	T	T	F	T	F	F	F	T	F	F	F	T
p	q	$p \downarrow q$																					
T	T	F																					
T	F	F																					
F	T	F																					
F	F	T																					
XNOR	-	$p \odot q$	$\overline{P \oplus Q}$	$(A \triangle B)^c$ - $(A \triangle B)'$			not (P ^ Q)	<table><tr><th>p</th><th>q</th><th>$p \odot q$</th></tr><tr><td>T</td><td>T</td><td>T</td></tr><tr><td>T</td><td>F</td><td>F</td></tr><tr><td>F</td><td>T</td><td>F</td></tr><tr><td>F</td><td>F</td><td>T</td></tr></table>	p	q	$p \odot q$	T	T	T	T	F	F	F	T	F	F	F	T
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