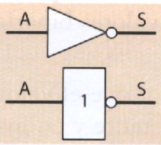
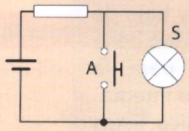
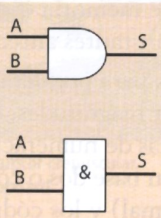
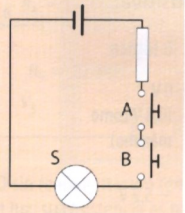
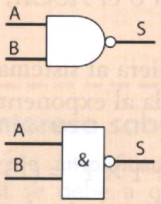
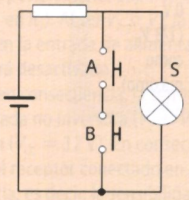
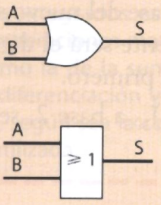
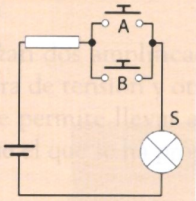
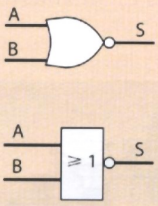
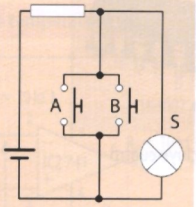
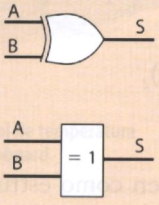
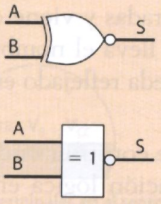
Funciones elementales

Puerta	Símbolos ASA y DIN	Función	Tabla de verdad	Configuración equivalente	Circuito integrado (TTL)
INVERSORA (NOT)		Negación lógica $S = \overline{A}$	A | S 0 | 1 1 | 0		7404 (6 puertas)
AND		Producto lógico $S = A \cdot B$	A | B | S 0 | 0 | 0 0 | 1 | 0 1 | 0 | 0 1 | 1 | 1		7408 (4 puertas de 2 entradas), 7411 (3 puertas de 3 entradas), 7421 (2 puertas de 4 entradas)
NAND		Función complementaria de la AND $S = \overline{A \cdot B}$	A | B | S 0 | 0 | 1 0 | 1 | 1 1 | 0 | 1 1 | 1 | 0		7400 y 7437 (4 puertas de 2 entradas), 7410 (3 puertas de 3 entradas), 7420 y 7440 (2 puertas de 4 entradas), 7430 (1 puerta de 8 entradas)
OR		Suma lógica $S = A + B$	A | B | S 0 | 0 | 0 0 | 1 | 1 1 | 0 | 1 1 | 1 | 1		7432 (4 puertas de 2 entradas)
NOR		Función complementaria de la OR $S = \overline{A + B}$	A | B | S 0 | 0 | 1 0 | 1 | 0 1 | 0 | 0 1 | 1 | 0		7402 (4 puertas de 2 entradas), 7427 (3 puertas de 3 entradas), 74260 (2 puertas de 5 entradas)
OR-EXCLUSIVA (EXOR)		Generadora de paridad par $S = A \oplus B = \overline{A} \cdot B + A \cdot \overline{B}$	A | B | S 0 | 0 | 0 0 | 1 | 1 1 | 0 | 1 1 | 1 | 0		7486 (4 puertas de 2 entradas)
NOR-EXCLUSIVA (EXNOR)		Generadora de paridad impar $S = \overline{A \oplus B} = \overline{A} \cdot \overline{B} + A \cdot B$	A | B | S 0 | 0 | 1 0 | 1 | 0 1 | 0 | 0 1 | 1 | 1		74266 (4 puertas de 2 entradas con salidas en colector abierto)