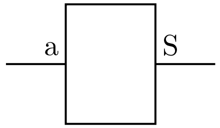
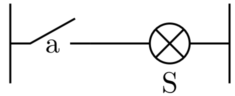
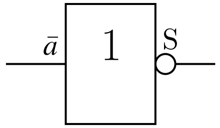
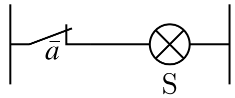
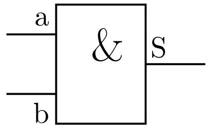
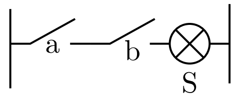
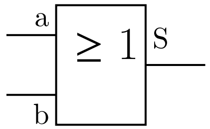
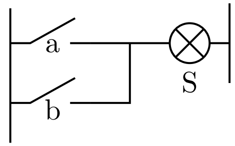
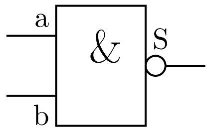
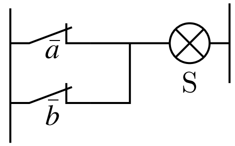
Équation logique	Table de vérité	Identité remarquable	Propriété	Symbole	Schéma
Fonction OUI					
$S = a$	a S 0 0 1 1				
Fonction NON					
$S = \bar{a}$	a S 0 1 1 0				
Fonction ET					
$S = a \cdot b$	a b S 0 0 0 0 1 0 1 0 0 1 1 1	– commutative ; – associative ; – distributive.	**élément neutre :** $a \cdot 1 = a$ **élément absorbant :** $a \cdot 0 = 0$ **idempotence :** $a \cdot a = a$ **complément :** $a \cdot \bar{a} = 0$		
Fonction OU					
$S = a + b$	a b S 0 0 0 0 1 1 1 0 1 1 1 1	– commutative ; – associative ; – distributive.	**élément neutre :** $a + 1 = a$ **élément absorbant :** $a + 1 = 1$ **idempotence :** $a + a = a$ **complément :** $a + \bar{a} = 1$		
Fonction NAND (NON-ET)					
$S = \overline{a \cdot b}$ $S = \bar{a} \cdot \bar{b}$	a b S 0 0 1 0 1 1	– commutative.	– $\overline{a \cdot 1} = \bar{a}$ – $\overline{a \cdot 0} = 1$ – $\overline{a \cdot a} = \bar{a}$ – $\overline{a \cdot \bar{a}} = 0$		

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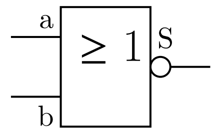
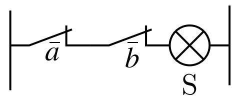
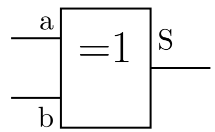
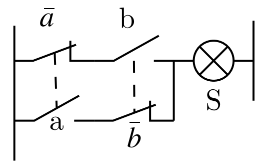
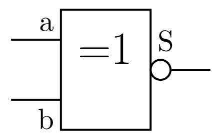
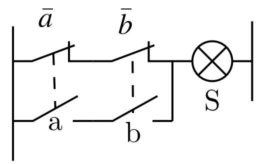
Page précédente

Équation logique	Table de vérité	Identité remarquable	Propriété	Symbole	Schéma
	1 0 1 1 1 0				
Fonction NOR (NON-OU)					
$S = \overline{a/b}$ $S = \bar{a} \cdot \bar{b}$	a b S 0 0 1 0 1 0 1 0 0 1 1 0	– commutative.	– $\overline{a+1} = 0$ – $\overline{a+0} = \bar{a}$ – $\overline{a+a} = \bar{a}$ – $\overline{a+\bar{a}} = 0$		
Fonction XOR					
$S = a \oplus b$ $S = \bar{a} \cdot b + a \cdot \bar{b}$	a b S 0 0 1 0 1 1 1 0 1 1 1 0	– commutative ; – associative	– $a \oplus 1 = \bar{a}$ – $a \oplus 0 = a$ – $a \oplus a = 0$ – $a \oplus \bar{a} = 0$		
Fonction XNOR					
$S = a \odot b$ $S = a \cdot b + \bar{a} \cdot \bar{b}$ $S = \overline{a \oplus b}$	a b S 0 0 1 0 1 0 1 0 0 1 1 1	– commutative.	– $a \odot 1 = a$ – $a \odot 0 = \bar{a}$ – $a \odot a = 1$ – $a \odot \bar{a} = 0$		

TAB. 0.1 – Portes logiques