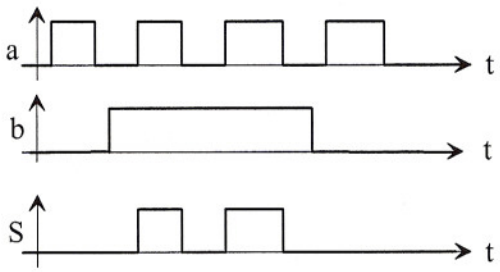
Exercices A: *Dans les exercices suivants, remplissez le tableau de Karnaugh en vous aidant des chronogrammes et donnez l'équation logique ainsi que le symbôle ou le logigramme associé.*

Exo N°A-1:

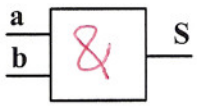


S	a=0	a=1
b=0	0	0
b=1	0	1

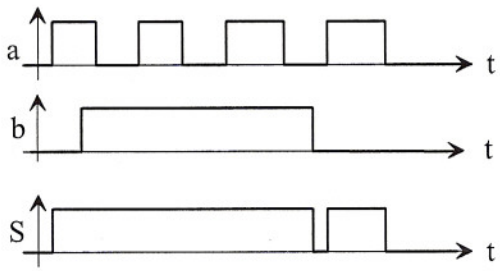
Equation:

S= a . b

Symbôle:



Exo N°A-2:



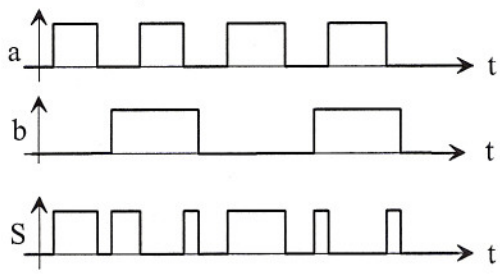
S	a=0	a=1
b=0	0	1
b=1	1	1

Equation:

S= a + b

Symbôle:

Exo N°A-3:



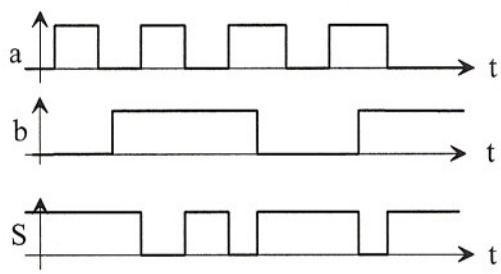
S	a=0	a=1
b=0	0	1
b=1	1	0

Equation:

S= a ⊕ b

Symbôle:

Exo N°A-4:

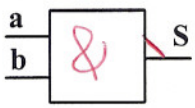


S	a=0	a=1
b=0	1	1
b=1	1	0

Equation:

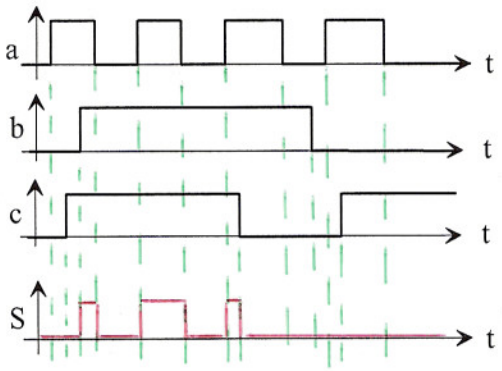
$S= \overline{a . b}$

Symbôle:

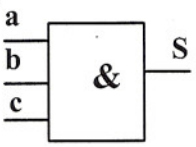


Exercices B: *Dans les exercices suivants, complétez les chronogrammes de la sortie S en fonction des variables d'entrée et donnez l'équation logique associée.*

Exo N°B-1:



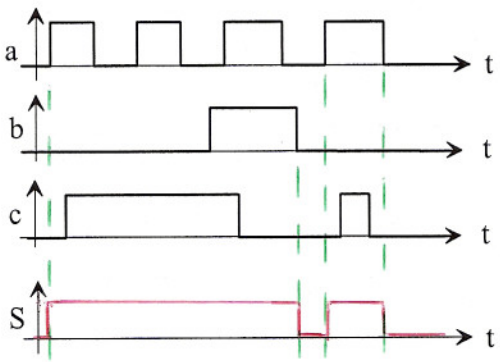
Symbôle:



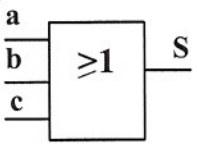
Equation:

S= a . b . S

Exo N°B-2:



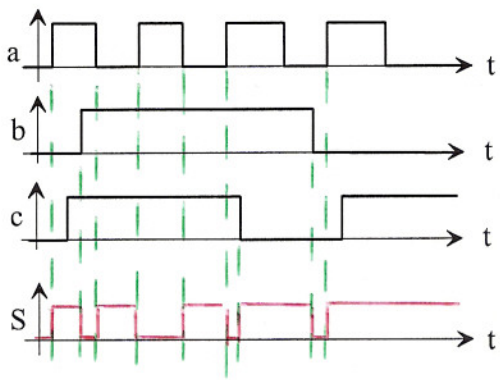
Symbôle:



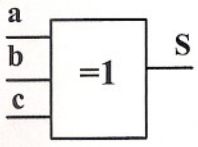
Equation:

S= a + b + c

Exo N°B-3:



Symbôle:



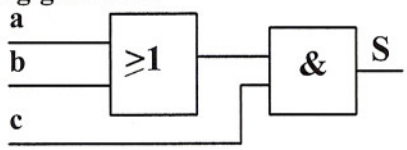
Equation:

S= a ⊕ b ⊕ c

● ***Exercices C:*** *Dans les exercices suivants, donnez l'équation logique associée au logigramme remplissez le tableau de karnaugh et complétez les chronogrammes de la sortie S en fonction des variables d'entrée.*

Exo N°C-1:

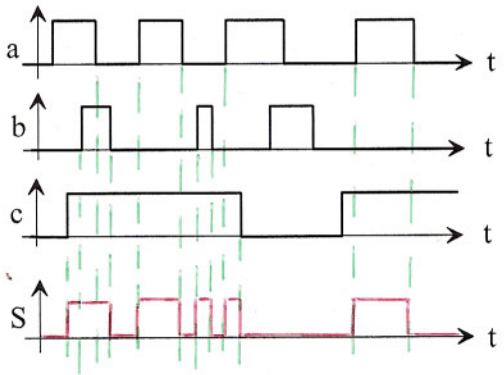
Logigramme:



Equation: S= (a+b).c

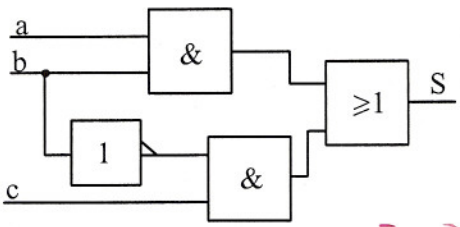
Tableau:

S	bc 00	01	11	10
a 0	0	0	1	0
1	0	1	1	0



Exo N°C-2:

Logigramme:



Equation: S= (a.b)+(b̄.c)

Tableau:

a	bc 00	01	11	10
0	0	1	0	0
1	0	1	1	1