

1 Exercice

Simplify the expression for the following truth table.

A	B	Y
0	0	1
0	1	0
1	0	1
1	1	0

is equal to

1. \bar{A}
2. $\bar{A} + B$
3. \bar{B}
4. $\bar{A} + \bar{B}$

2 Exercice

Simplify the expression

$$Y(A, B) = \prod_M(1, 3).$$

1. \bar{A}
2. \bar{B}
3. $\bar{A} + B$
4. $\bar{A} + \bar{B}$

3 Exercice

The minimized form of the logical expression

$$(\bar{A}\bar{B}\bar{C} + \bar{A}B\bar{C} + \bar{A}BC + A\bar{B}\bar{C})$$

is

1. $\bar{A}C + B\bar{C} + \bar{A}B$
2. $A\bar{C} + BC + \bar{A}B$
3. $\bar{A}C + BC + \bar{A}B$
4. $A\bar{C} + \bar{B}C + \bar{A}B$

4 Exercice

If X and Y are Boolean variables, which one of the following is the equivalent of

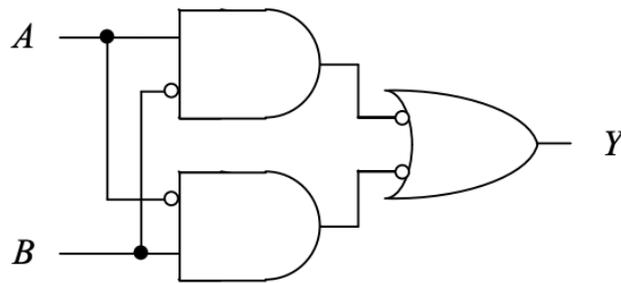
$$X \oplus Y \oplus XY?$$

1. $X + \bar{Y}$
2. $X + Y$
3. 0
4. 1

5 Exercice

The equation for the output of logic gates below is :

1. $Y = AB$
2. $Y = A\bar{B} + \bar{A}B$
3. $Y = \bar{A}B$
4. $Y = AB + \bar{A}B$



6 Exercice

Établir la table de vérité des circuits logiques suivants.

