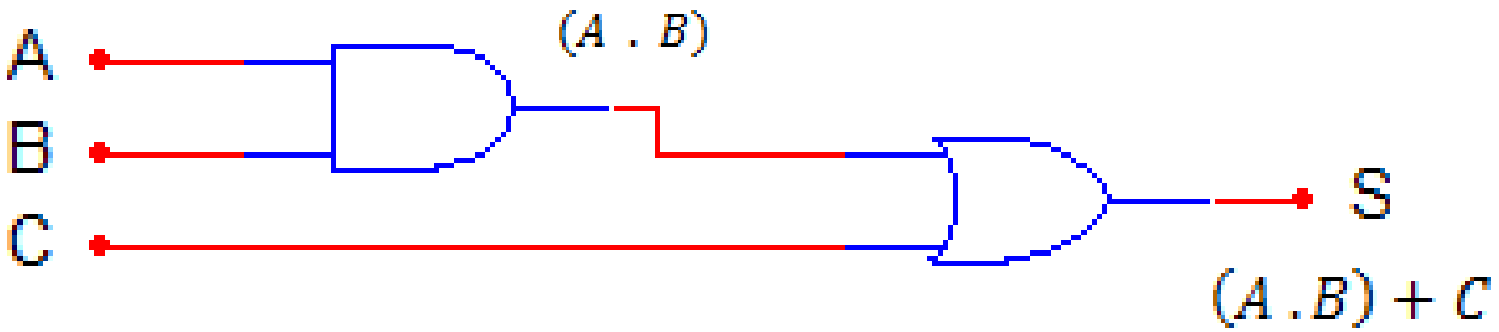
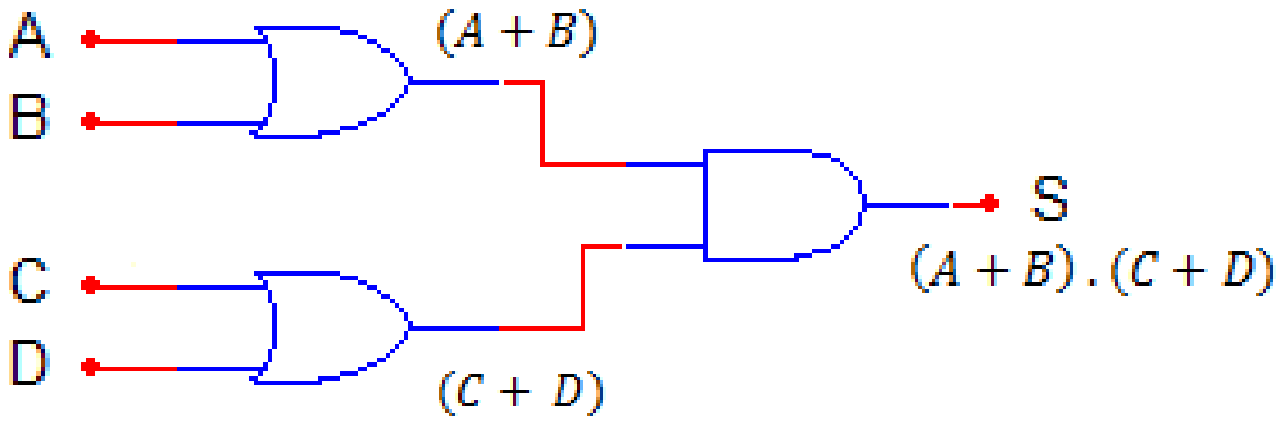
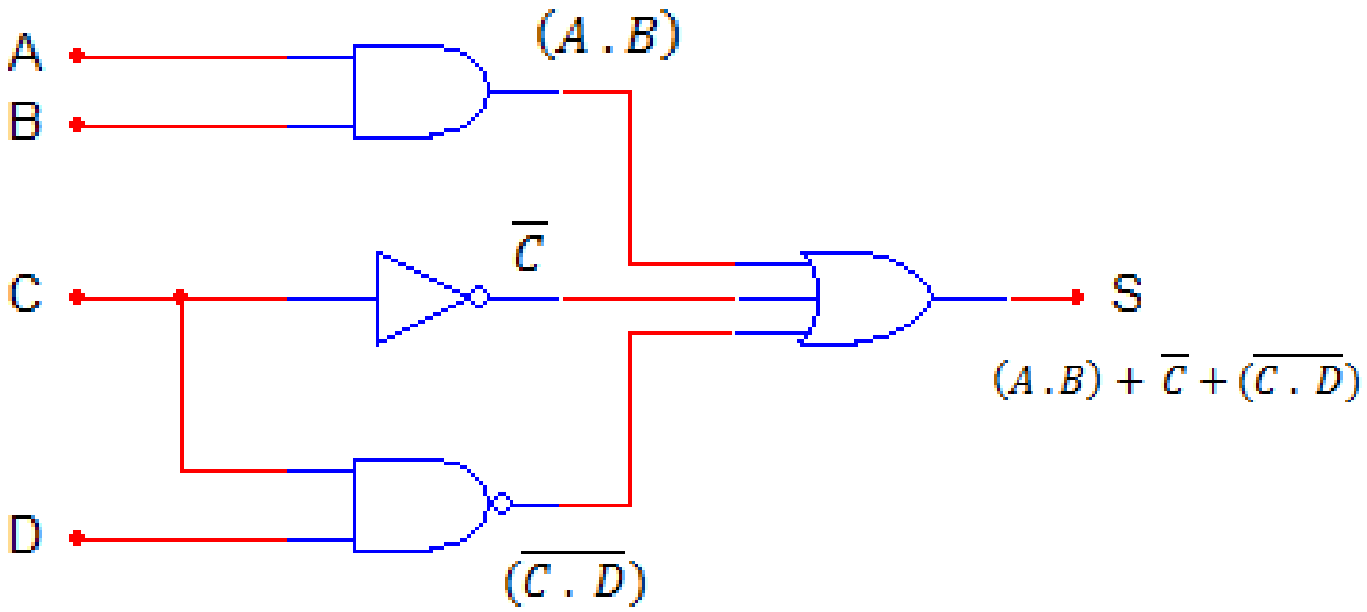
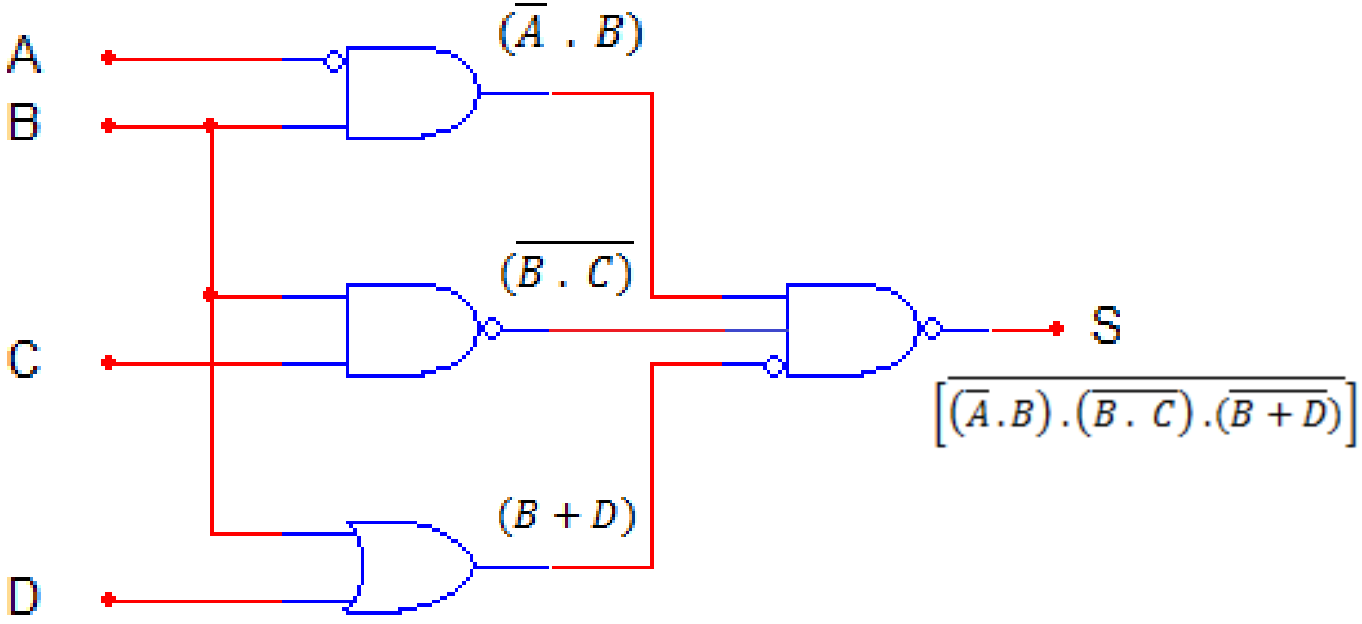
SISTEMAS DIGITAIS

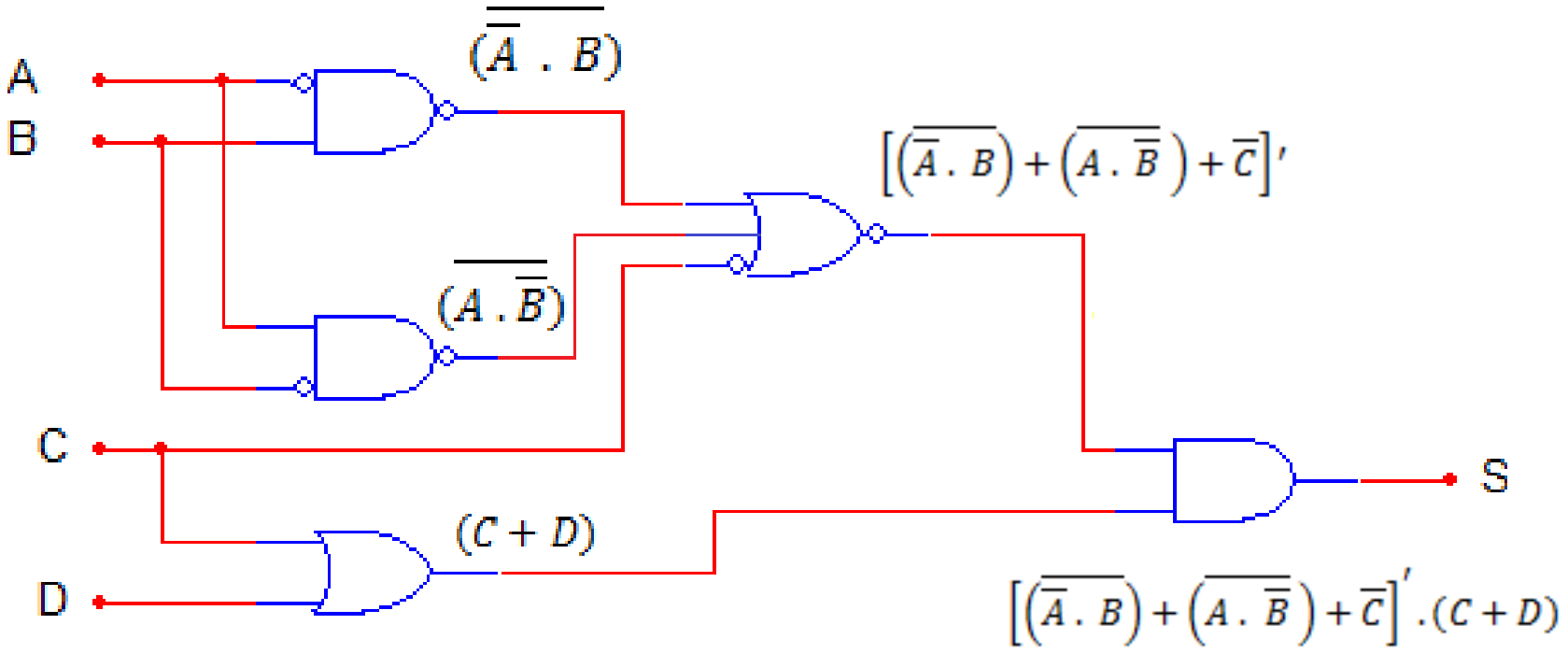
EXPRESSÕES BOOLEANAS GERADAS POR CIRCUITOS LÓGICOS


A
B
C
$(A \ . \ B)$
S
$(A \ . B) + C$


A
B
C
D
$(A + B)$
$(C + D)$
S
$(A + B) . (C + D)$


A
B
C
D
$(A\,.\,B)$
$\overline{C}$
$(\overline{C\,.\,D})$
S
$(A\,.B) + \overline{C} + (\overline{C\,.\,D})$


A
B
C
D
$(\overline{A} \ . \ B)$
$(\overline{B \ . \ C})$
$(B + D)$
S
$\left[\overline{(\overline{A}.B).(\overline{B \ . \ C}).(\overline{B + D})}\right]$

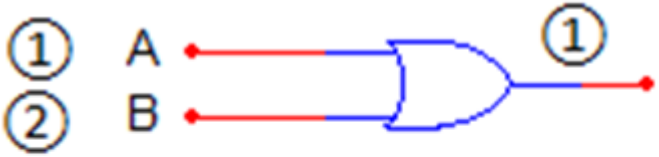

A
B
C
D
$\overline{(\overline{A} \cdot B)}$
$\overline{(A \cdot \overline{B})}$
$(C + D)$
$\left[\left(\overline{\overline{A} \cdot B}\right) + \left(\overline{A \cdot \overline{B}}\right) + \overline{C}\right]'$
S
$\left[\left(\overline{\overline{A} \cdot B}\right) + \left(\overline{A \cdot \overline{B}}\right) + \overline{C}\right]' \cdot (C + D)$

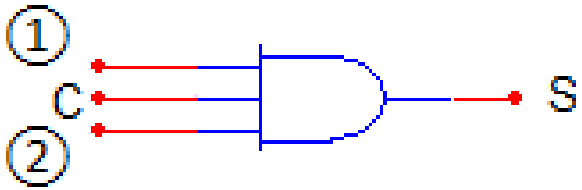
CIRCUITOS OBTIDOS DE EXPRESSÕES BOOLEANAS

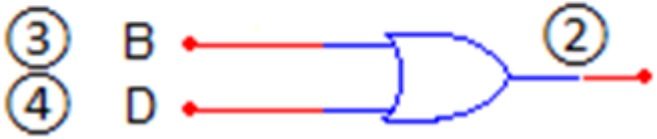
$$S = (A + B).C\ .(B + D)$$

① $(A + B)$

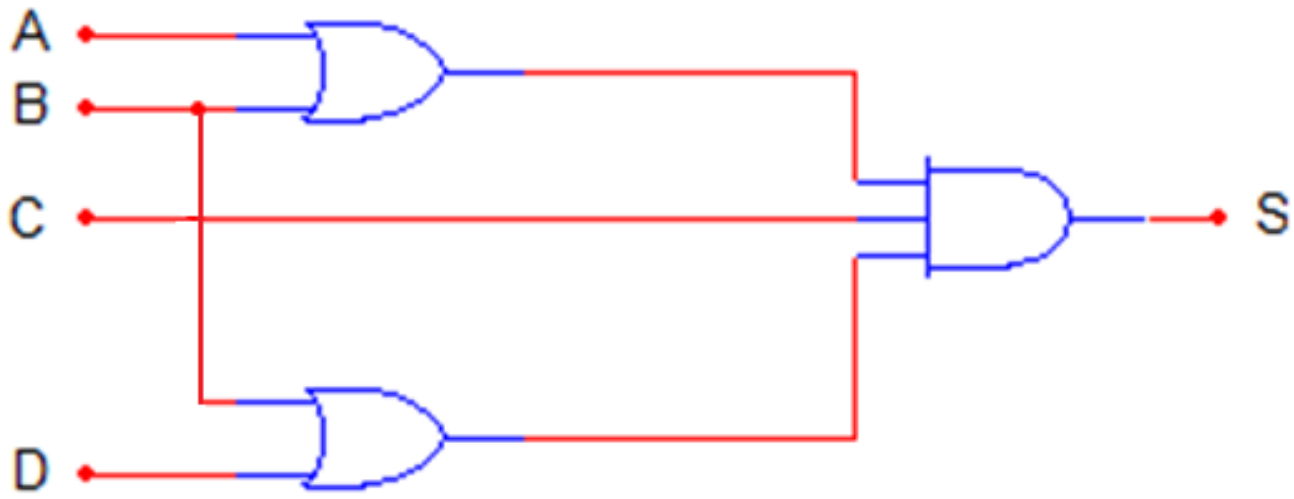
② $(B + D)$



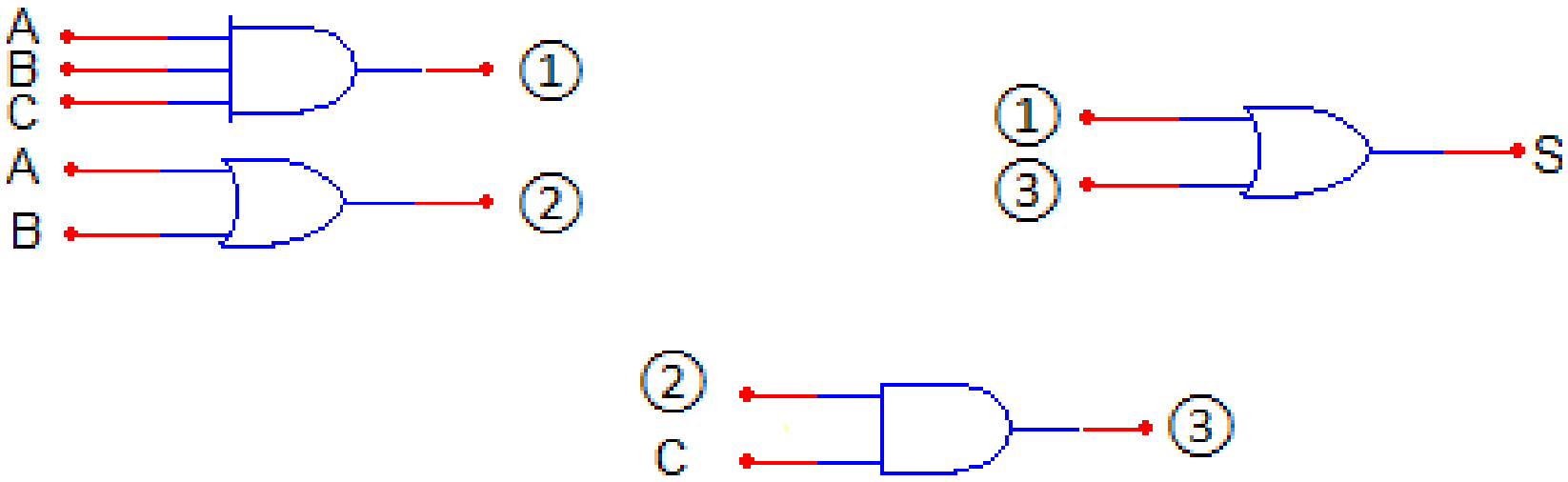




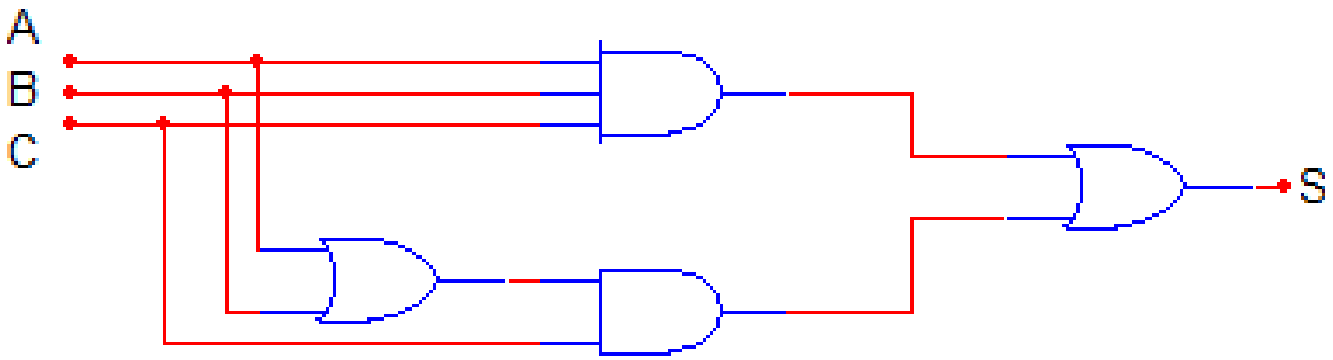
$$S = (A + B).C\ .(B + D)$$



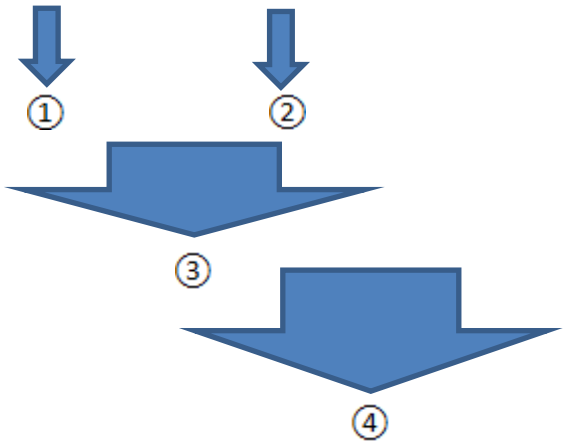
$$S = A\,.B\,.C + (A + B).C$$

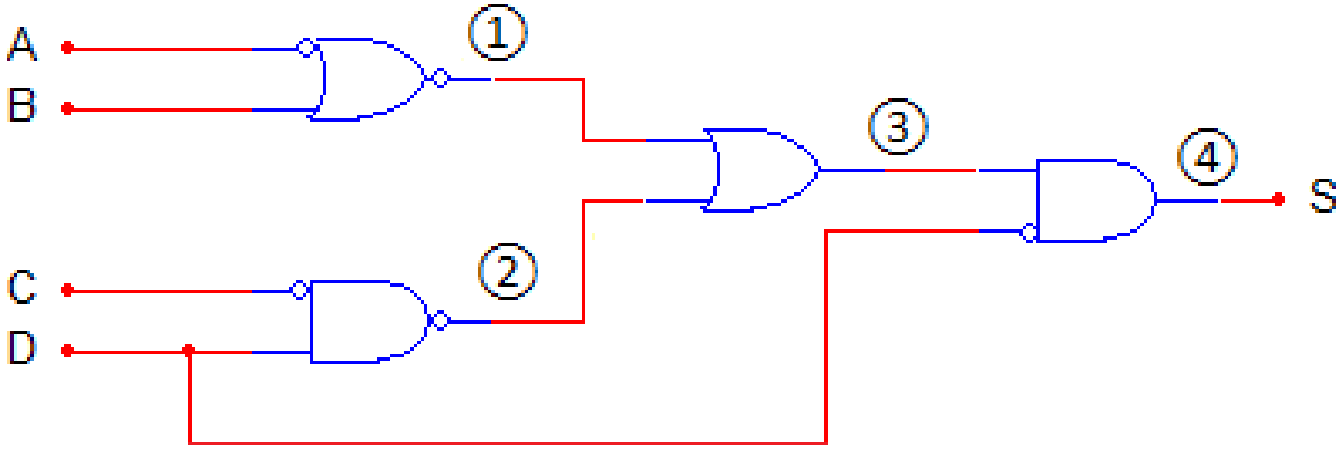


$$S = A\,.B\,.C + (A + B).C$$



$$S = [(\overline{\overline{A} + B}) + (\overline{\overline{C} \,.\, D})] \,.\, \overline{D}$$





$$S = \left[\left(\overline{\overline{A}\,.\,B}\right) + \left(\overline{C\,.\,\overline{D}}\right)\right]'.E + \left[\left(A\,.\,\overline{D}\,.\,\overline{E}\right) + \left(C\,.\,D\,.\,E\right)\right].\overline{A}$$