IFPI

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Atividade 09

3) $x = [D + \overline{(A + B)C}]E$

$x = [0 + \overline{(0+0)\cdot 0}]\cdot 0$

$x = [0 + \overline{(3+3)\cdot 3}]\cdot 0$

$x = [0 + \overline{(2)\cdot 3}]\cdot 0$

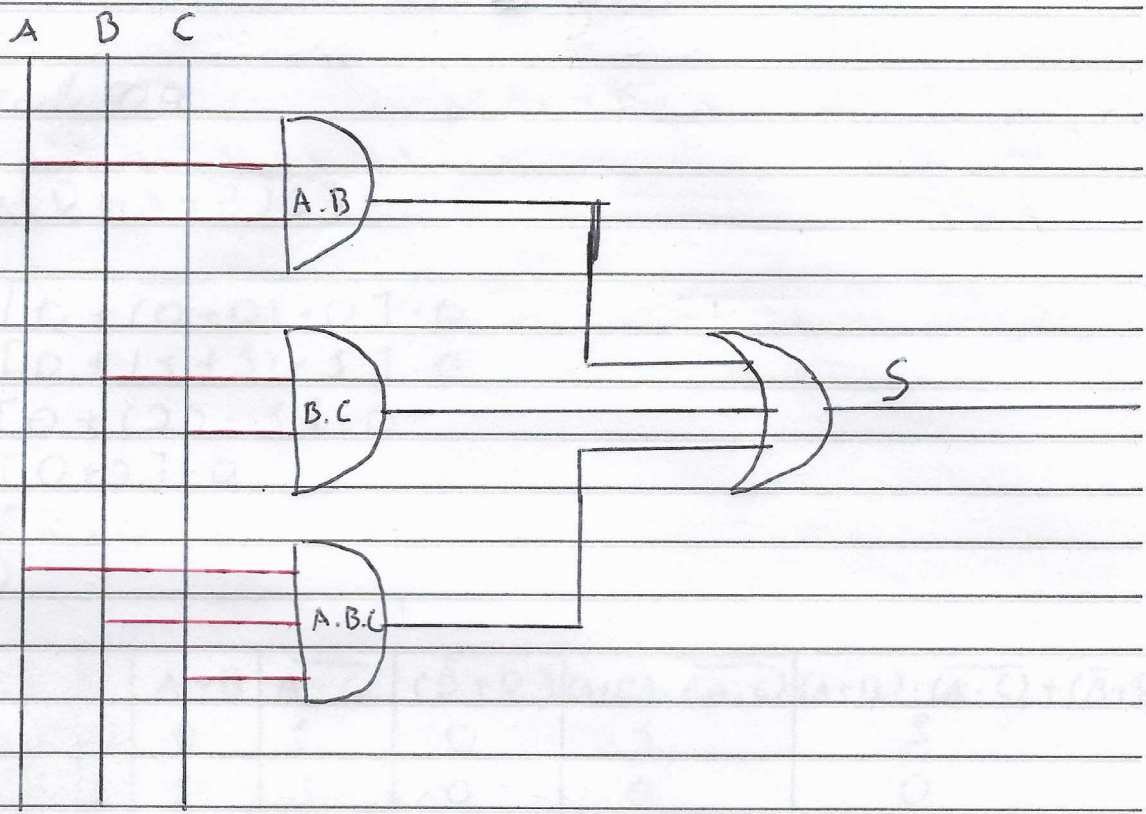
$x = [0+2]\cdot 0$

$x = \overline{2}\cdot 0 = 0$

$x = 0$

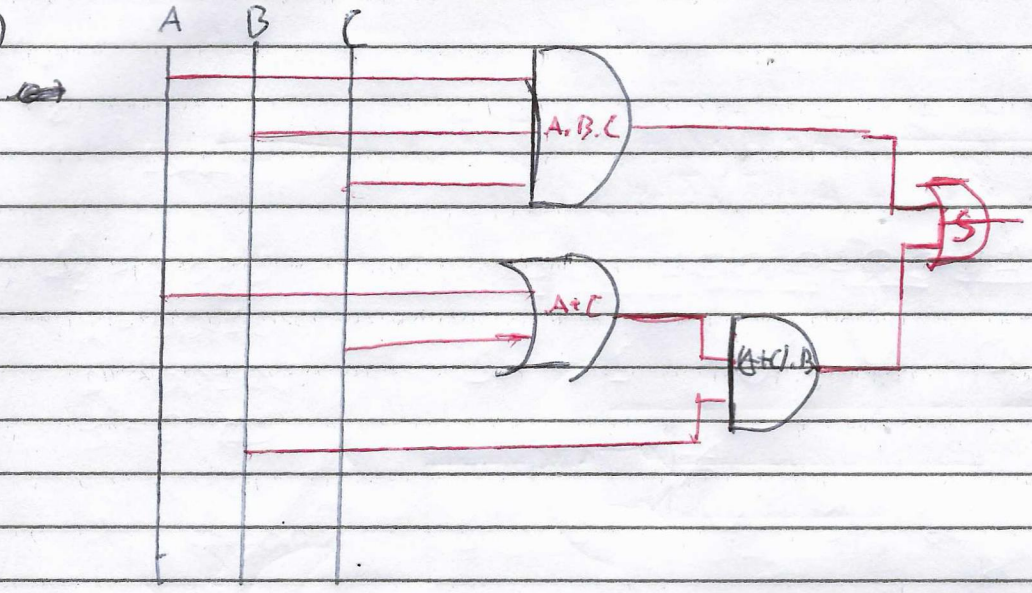
S T Q Q S S D
L M M J V S D

2.



S T Q Q S S D
L M M J V S D

3)



$S = A \cdot B \cdot C + (A+C) \cdot B$

A	B	C	A.B.C	A+C	A+C . B	A.B.C + (A+C).B = S
0	0	0	0	0	0	0
0	0	1	0	1	0	0
0	1	0	0	0	0	0
0	1	1	0	1	1	1
1	0	0	0	1	0	0
1	0	1	0	1	0	0
1	1	0	0	1	1	1
1	1	1	1	1	1	1

↑ resultado

4) a) $A + B$
$\overline{B} + D$
$C \cdot A$
$(A \cdot C) \cdot (B + A)$
$(A \cdot C) \cdot (B + A) + (\overline{B} + D)$

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

4) B)

A	B	C	D	$A+B$	$\overline{A \cdot C}$	$\overline{(\bar{B}+D)}$	$\overline{(A+B)} \cdot \overline{(A \cdot C)}$	$\overline{(A+B) \cdot (A \cdot C)} + \overline{(\bar{B}+D)}$
0	0	0	0	0	1	0	1	1
0	0	0	1	1	1	0	0	0
0	0	1	0	1	1	0	0	0
0	0	1	1	1	1	0	0	0
0	1	0	0	1	1	1	0	1
0	1	0	1	1	1	0	0	0
0	1	1	0	1	1	1	0	1
0	1	1	1	1	1	0	0	0
1	0	0	0	1	1	0	0	0
1	0	0	1	1	1	0	0	0
1	0	1	0	1	0	0	1	1
1	0	1	1	1	0	0	1	1
1	1	0	0	1	1	0	0	1
1	1	0	1	1	1	1	0	0
1	1	1	0	1	0	0	1	1
1	1	1	1	1	0	1	1	1

S T Q Q S S D
L M M J V S D

5)

~~$\bar{A} \cdot \bar{B} \cdot \bar{C} + \bar{A} \cdot B \cdot C + A \cdot \bar{B} \cdot \bar{C} + A \cdot B \cdot C$~~

$\bar{A} \cdot B \cdot C + A \cdot \bar{B} \cdot \bar{C} = S$