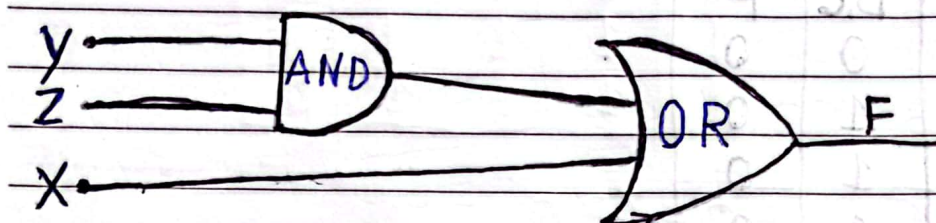


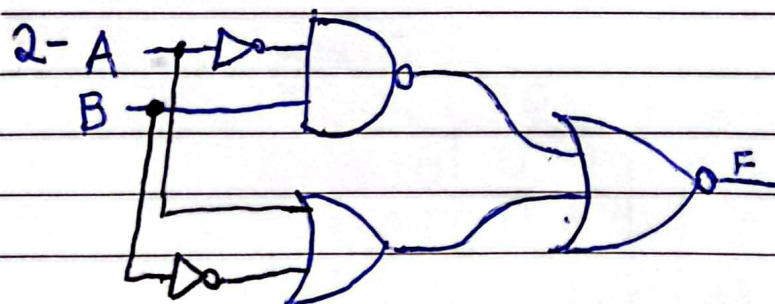
Lista 1 de Matemática

Paulo Henrique Holanda Silveira

$$\begin{aligned} 1- F &= \bar{X}YZ + XZ + X\bar{Y}Z + X\bar{Z} + XY \\ &= \bar{X}YZ + X(Z + \bar{Y}Z + \bar{Z} + Y) \\ &= \bar{X}YZ + X \cdot 1 + XY \\ &= \bar{X}YZ + X + XY \\ &= X + YZ + X \end{aligned}$$

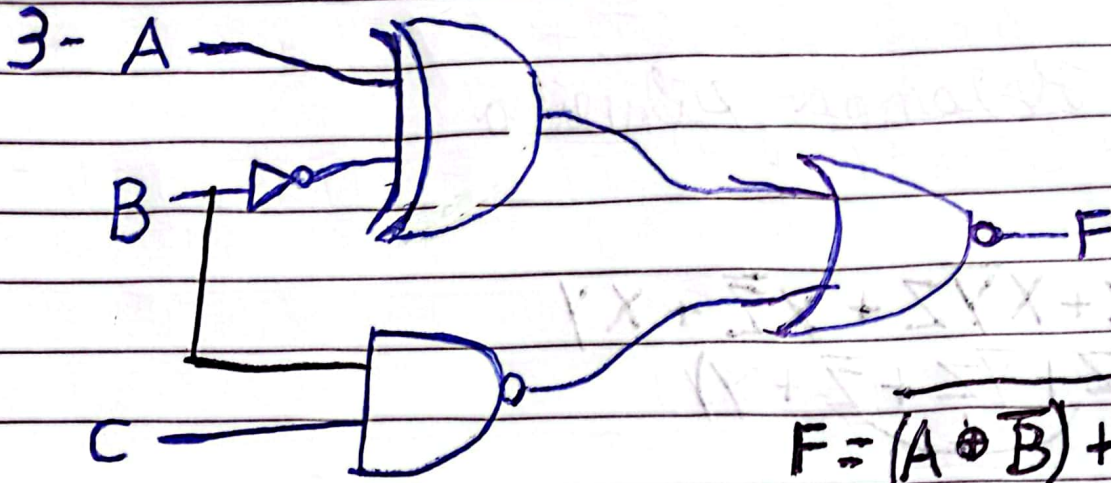


X	Y	Z	F
1	1	1	1
1	1	0	1
1	0	1	1
1	0	0	1
0	1	1	1
0	1	0	0
0	0	1	0
0	0	0	0



$$F = \overline{(\bar{A} \cdot B)} + (A + \bar{B})$$

A	B	$\bar{A} \cdot B$	$A + \bar{B}$	F
1	1	1	1	0
1	0	1	1	0
0	1	0	0	1
0	0	1	1	0



$$F = \overline{(A \oplus B)} + \overline{(BC)}$$

A	B	C	$A \oplus B$	$\overline{B.C}$	F
1	1	1	1	0	0
1	1	0	1	1	0
1	0	1	0	1	0
1	0	0	0	1	0
0	1	1	0	0	1
0	1	0	0	1	0
0	0	1	1	1	0
0	0	0	1	1	0