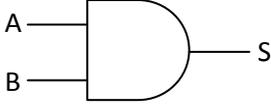
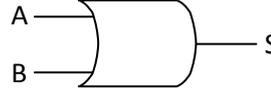
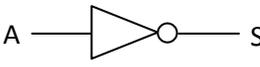
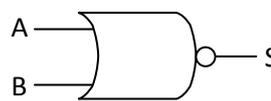
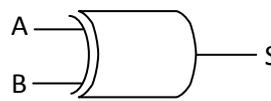
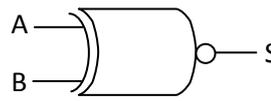


BLOCOS LÓGICOS BÁSICOS																			
PORTA	SÍMBOLO USUAL	TABELA DA VERDADE	FUNÇÃO LÓGICA	EXPRESSÃO															
E AND		<table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> <td>0</td> </tr> <tr> <td>1</td> <td>0</td> <td>0</td> </tr> <tr> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	A	B	S	0	0	0	0	1	0	1	0	0	1	1	1	<b>Função E:</b> Assume 1 quando todas as variáveis forem 1 e 0 nos outros casos.	$S = A \cdot B$
A	B	S																	
0	0	0																	
0	1	0																	
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OU OR		<table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	A	B	S	0	0	0	0	1	1	1	0	1	1	1	1	<b>Função OU:</b> Assume 0 quando todas as variáveis forem 0 e 1 nos outros casos.	$S = A + B$
A	B	S																	
0	0	0																	
0	1	1																	
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NÃO NOT		<table border="1"> <thead> <tr> <th>A</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1</td> </tr> <tr> <td>1</td> <td>0</td> </tr> </tbody> </table>	A	S	0	1	1	0	<b>Função NÃO:</b> Inverte a variável aplicada à sua entrada.	$S = \bar{A}$									
A	S																		
0	1																		
1	0																		
NE NAND		<table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>1</td> <td>1</td> <td>0</td> </tr> </tbody> </table>	A	B	S	0	0	1	0	1	1	1	0	1	1	1	0	<b>Função NE:</b> Assume 0 quando todas as variáveis forem 1 e 0 nos outros casos. (Inverso da função E).	$S = \overline{A \cdot B}$
A	B	S																	
0	0	1																	
0	1	1																	
1	0	1																	
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NOU NOR		<table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>0</td> <td>1</td> <td>0</td> </tr> <tr> <td>1</td> <td>0</td> <td>0</td> </tr> <tr> <td>1</td> <td>1</td> <td>0</td> </tr> </tbody> </table>	A	B	S	0	0	1	0	1	0	1	0	0	1	1	0	<b>Função NE:</b> Assume 1 quando todas as variáveis forem 0 e 1 nos outros casos. (Inverso da função OU).	$S = \overline{A + B}$
A	B	S																	
0	0	1																	
0	1	0																	
1	0	0																	
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OU Exclusivo XOR		<table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>0</td> <td>1</td> <td>1</td> </tr> <tr> <td>1</td> <td>0</td> <td>1</td> </tr> <tr> <td>1</td> <td>1</td> <td>0</td> </tr> </tbody> </table>	A	B	S	0	0	0	0	1	1	1	0	1	1	1	0	<b>Função OU Exclusivo:</b> Assume 1 quando as variáveis assumirem valores diferentes entre si.	$S = A \oplus B$ $S = \bar{A} \cdot B + A \cdot \bar{B}$
A	B	S																	
0	0	0																	
0	1	1																	
1	0	1																	
1	1	0																	
Coincidência XNOR		<table border="1"> <thead> <tr> <th>A</th> <th>B</th> <th>S</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>1</td> </tr> <tr> <td>0</td> <td>1</td> <td>0</td> </tr> <tr> <td>1</td> <td>0</td> <td>0</td> </tr> <tr> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	A	B	S	0	0	1	0	1	0	1	0	0	1	1	1	<b>Função Coincidência:</b> Assume 1 quando houver coincidência entre os valores das variáveis. (Inverso da função XOR).	$S = A \odot B$ $S = \bar{A} \cdot \bar{B} + A \cdot B$
A	B	S																	
0	0	1																	
0	1	0																	
1	0	0																	
1	1	1																	