


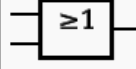

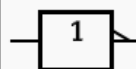

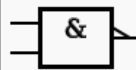

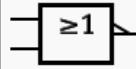

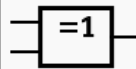

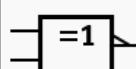


From: Klaus Reim <reimk@phys.ethz.ch>  
 Subject: (No Subject)  
 Date: 11 April 2012 17:12:33 CEST

22 Attachments, 14 KB

Type	Distinctive shape	Rectangular shape	Boolean algebra between A & B	Truth table																		
AND			$A \cdot B$	<table><tr><th colspan="2">INPUT</th><th>OUTPUT</th></tr><tr><th>A</th><th>B</th><th>A AND B</th></tr><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></table>	INPUT		OUTPUT	A	B	A AND B	0	0	0	0	1	0	1	0	0	1	1	1
INPUT		OUTPUT																				
A	B	A AND B																				
0	0	0																				
0	1	0																				
1	0	0																				
1	1	1																				
OR			$A + B$	<table><tr><th colspan="2">INPUT</th><th>OUTPUT</th></tr><tr><th>A</th><th>B</th><th>A OR B</th></tr><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></table>	INPUT		OUTPUT	A	B	A OR B	0	0	0	0	1	1	1	0	1	1	1	1
INPUT		OUTPUT																				
A	B	A OR B																				
0	0	0																				
0	1	1																				
1	0	1																				
1	1	1																				
NOT			$\overline{A}$	<table><tr><th>INPUT</th><th>OUTPUT</th></tr><tr><th>A</th><th>NOT A</th></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>0</td></tr></table>	INPUT	OUTPUT	A	NOT A	0	1	1	0										
INPUT	OUTPUT																					
A	NOT A																					
0	1																					
1	0																					
NAND			$\overline{A \cdot B}$	<table><tr><th colspan="2">INPUT</th><th>OUTPUT</th></tr><tr><th>A</th><th>B</th><th>A NAND B</th></tr><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></table>	INPUT		OUTPUT	A	B	A NAND B	0	0	1	0	1	1	1	0	1	1	1	0
INPUT		OUTPUT																				
A	B	A NAND B																				
0	0	1																				
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1	0	1																				
1	1	0																				
NOR			$\overline{A + B}$	<table><tr><th colspan="2">INPUT</th><th>OUTPUT</th></tr><tr><th>A</th><th>B</th><th>A NOR B</th></tr><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></table>	INPUT		OUTPUT	A	B	A NOR B	0	0	1	0	1	0	1	0	0	1	1	0
INPUT		OUTPUT																				
A	B	A NOR B																				
0	0	1																				
0	1	0																				
1	0	0																				
1	1	0																				
XOR			$A \oplus B$	<table><tr><th colspan="2">INPUT</th><th>OUTPUT</th></tr><tr><th>A</th><th>B</th><th>A XOR B</th></tr><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></table>	INPUT		OUTPUT	A	B	A XOR B	0	0	0	0	1	1	1	0	1	1	1	0
INPUT		OUTPUT																				
A	B	A XOR B																				
0	0	0																				
0	1	1																				
1	0	1																				
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XNOR			$\overline{A \oplus B}$ or $A \odot B$	<table><tr><th colspan="2">INPUT</th><th>OUTPUT</th></tr><tr><th>A</th><th>B</th><th>A XNOR B</th></tr><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></table>	INPUT		OUTPUT	A	B	A XNOR B	0	0	1	0	1	0	1	0	0	1	1	1
INPUT		OUTPUT																				
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