
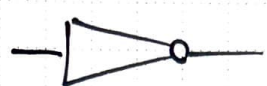




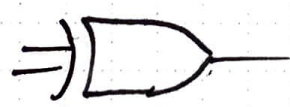
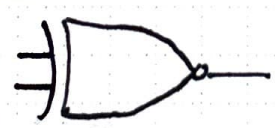


Multisim Chip	Common Name	Gate Symbol	Truth Table	Boolean Equation															
74LS07	YES		<table><tr><th>A</th><th>Y</th></tr><tr><td>0</td><td>0</td></tr><tr><td>1</td><td>1</td></tr></table>	A	Y	0	0	1	1	$Y = A$									
A	Y																		
0	0																		
1	1																		
74LS04	NOT		<table><tr><th>A</th><th>Y</th></tr><tr><td>0</td><td>1</td></tr><tr><td>1</td><td>0</td></tr></table>	A	Y	0	1	1	0	$Y = \bar{A}$									
A	Y																		
0	1																		
1	0																		
74LS08	AND		<table><tr><th>A</th><th>B</th><th>Y</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>	A	B	Y	0	0	0	0	1	0	1	0	0	1	1	1	$Y = A \cdot B$
A	B	Y																	
0	0	0																	
0	1	0																	
1	0	0																	
1	1	1																	
74LS00	NAND		<table><tr><th>A</th><th>B</th><th>Y</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>	A	B	Y	0	0	1	0	1	1	1	0	1	1	1	0	$Y = \overline{A \cdot B}$
A	B	Y																	
0	0	1																	
0	1	1																	
1	0	1																	
1	1	0																	
74LS32	OR		<table><tr><th>A</th><th>B</th><th>Y</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>	A	B	Y	0	0	0	0	1	1	1	0	1	1	1	1	$Y = A + B$
A	B	Y																	
0	0	0																	
0	1	1																	
1	0	1																	
1	1	1																	
74LS02	NOR		<table><tr><th>A</th><th>B</th><th>Y</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>	A	B	Y	0	0	1	0	1	0	1	0	0	1	1	0	$Y = \overline{A + B}$
A	B	Y																	
0	0	1																	
0	1	0																	
1	0	0																	
1	1	0																	
74LS86	XOR		<table><tr><th>A</th><th>B</th><th>Y</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>	A	B	Y	0	0	0	0	1	1	1	0	1	1	1	0	$Y = A \oplus B$
A	B	Y																	
0	0	0																	
0	1	1																	
1	0	1																	
1	1	0																	
74LS266	XNOR		<table><tr><th>A</th><th>B</th><th>Y</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>	A	B	Y	0	0	1	0	1	0	1	0	0	1	1	1	$Y = \overline{A \oplus B}$
A	B	Y																	
0	0	1																	
0	1	0																	
1	0	0																	
1	1	1																	
Multisim Chip	Common Name	Gate Symbol	Truth Table	Boolean Equation															

Signature: *Christopher J. ...*

Witness:

Date: 9/26/2021

Date:

Team Members:

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