

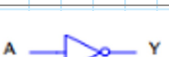





Porte Logiche

mercoledì 16 marzo 2022 17:13

 <p>AND</p> <p>$Y = A * B$</p>	<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
A	B	Y														
0	0	0														
0	1	0														
1	0	0														
1	1	1														
 <p>OR</p> <p>$Y = A + B$</p>	<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
A	B	Y														
0	0	0														
0	1	1														
1	0	1														
1	1	1														
 <p>NOT</p> <p>$Y = \underline{A}$</p>	<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									
A	Y															
0	1															
1	0															
 <p>NOR</p> <p>$Y = \underline{A + B}$</p>	<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
A	B	Y														
0	0	1														
0	1	0														
1	0	0														
1	1	0														
 <p>NAND</p> <p>$Y = \underline{A * B}$</p>	<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
A	B	Y														
0	0	1														
0	1	1														
1	0	1														
1	1	0														
 <p>EX-OR</p> <p>$Y = \underline{A * B} + A * \underline{B}$ $= A \oplus B$</p>	<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
A	B	Y														
0	0	0														
0	1	1														
1	0	1														
1	1	0														

1 -> Passa corrente
0 -> Non passa corrente

Svolgono operazioni primitive

Per creare un and a 3 entrate, bisogna metterli a cascata

