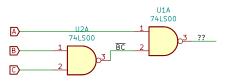
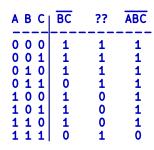
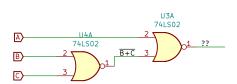
Proof of FAILURE



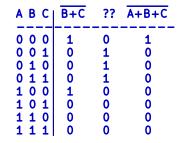
This is NOT a 3-input NAND function



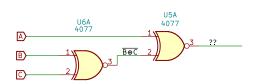
$$\overline{A(BC)} != \overline{ABC}$$



This is NOT a 3-input NOR function



$$\overline{A+(\overline{B+C})} := \overline{A+B+C}$$



This is NOT a 3-input XNOR gate

A B C	B⊕C	??	A⊕B⊕ C
0 0 0	1	0	1
0 0 1 0 1 0	0	1	0 0
0 1 1 1 0 0	1 1 0	0 1	1 0
1 0 1 1 1 0	0	0	1
1 1 1	1	1	Ŏ
		\	
This circuit is a 3-in XOR gate!!			

$$A \oplus (\overline{B \oplus C}) != \overline{A \oplus B \oplus C}$$

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If you chose to manufacture products based on this design, please notify me (see license section 4.2) via jwinans@niu.edu

Sheet: /

File: 05-combinatorial-3-in-fails.sch

Title: Can Not Construct These 3-in Functions This Way!!

 Size: USLetter
 Date: 2019-09-07
 Rev: 1

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