



Logic Gates

Practice logic circuits design.

Instruction

Read carefully and check all statements below you agree with or that are correct about your assignment submission.

- ☒ If something is not clear in this page I ask for help from instructor or TA during submission period.
- ☒ After submission I will get a tentative assessment based on my input, that may be changed later after re-evaluation by grader.
- ☒ My answers represent my own individual work.
- ☒ Cheating of any kind (copying someone else's work, allowing others to copy your work, collaborating, etc.) will not be tolerated and will be dealt with SEVERELY.



1

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- NOR gates are so-called "universal gates" that can be combined to form any other kind of logic gate. For example, the first embedded system, Apollo Guidance Computer, was built exclusively from 5,600 NOR gates.
- Using the NOR gate, construct the basic gates: AND, NOT and OR.
- On a sheet of paper draw the diagrams showing how all gates are connected.
- Submit the paper at the beginning of the 1st class next week.

☒ OK

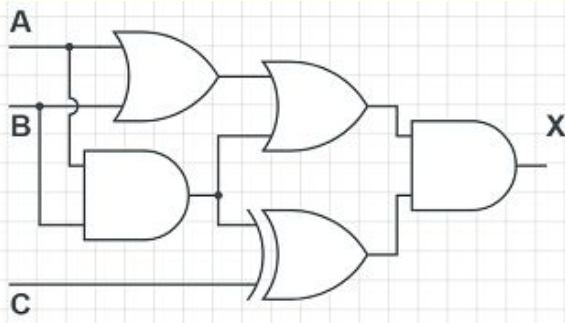


2

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Write down the truth table that describes the following circuit



A	B	C	X
0	0	0	0
0	1	1	1
1	1	0	1

A	B	C	X
0	0	1	0
1	0	0	0
1	0	1	1

A	B	C	X
0	1	0	0
1	0	1	1

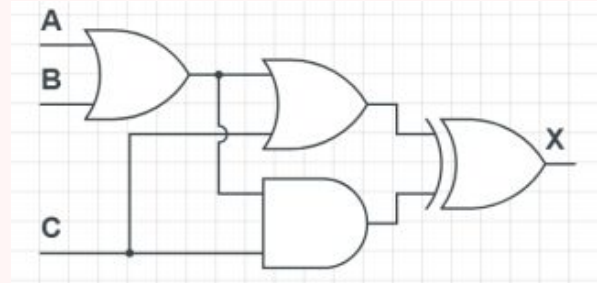


3

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Write down the truth table that describes the following circuit



A	B	C	X
0	0	0	0
0	1	1	0
1	1	0	1

A	B	C	X
0	0	1	1
1	0	0	1
1	1	1	0

A	B	C	X
0	1	0	1
1	0	1	0

Survey

- What is approximate number of hours you spent implementing this assignment?

- Indicate the specific portions of the assignment that gave you the most trouble

By signing this document you fully agree that all information provided therein is complete and true in all respects.

Responder sign: