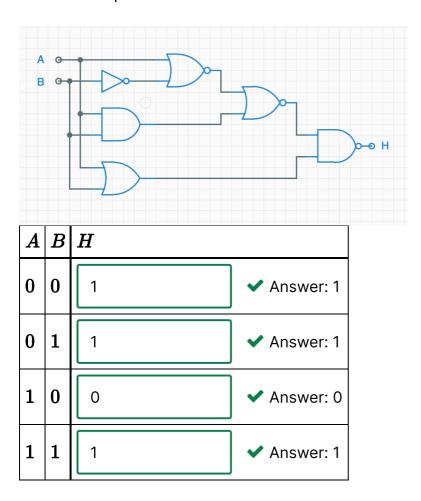
Video explanation of solution is provided below the problem.

Gates and Boolean Logic

4/4 points (ungraded)

Given the circuit shown below, create a truth table that describes the function H that this circuit represents



Explanation

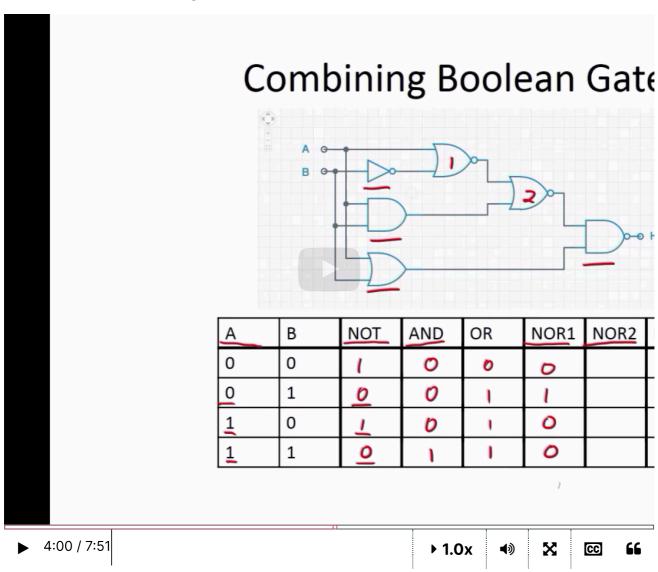
In order to fill in the truth table for H, one can fill in the intermediate truth tables for all the gates within the circuit. For example, the output of the inverter is \overline{B} . Continuing this process will eventually lead to having the following truth table. Note that the output of the NAND gate is equivalent to the output H.

$oldsymbol{A}$	\boldsymbol{B}	NOT	AND	OR	1stNOR	2ndNOR	NAND	H
0	0	1	0	0	0	1	1	1
0	1	0	0	1	1	0	1	1
1	0	1	0	1	0	1	0	0
1	1	0	1	1	0	0	1	1

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Answers are displayed within the problem

Gates and Boolean Logic



Video

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