MITx 6.004.1x
**Computation Structures 1: Digital Circuits**

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# WE4.2

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Calculator
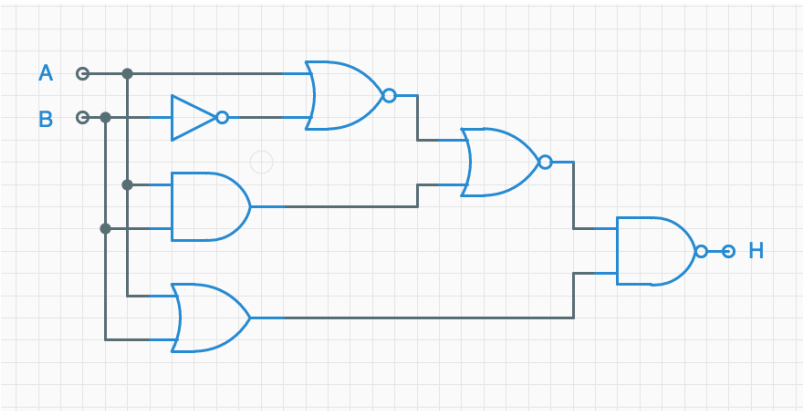
**Video explanation of solution is provided below the problem.**

## 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



| $A$ | $B$ | $H$ | |
|---|---|---|---|
| 0 | 0 | 1 | ✔ |
| 0 | 1 | 1 | ✔ |
| 1 | 0 | 0 | ✔ |
| 1 | 1 | 1 | ✔ |

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**Gates and Boolean Logic**



| A | B | H |
|---|---|---|
| 0 | 0 | 1 |
| 0 | 1 | 1 |
| 1 | 0 | 0 |
| 1 | 1 | 1 |

(Caption will be displayed when you start playing the video.)

▶  0:00 / 0:00                    ▸ 1.0x   ◀ )   ✕   CC   ❝

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# Discussion

**Topic:** 4. Combinational Logic / WE4.2

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💬 **Function H**
Another way to find an expression for the function H is by focusing in all the cases that make H=0. In this case, \*\*\*not(H) = A and no... **9**

💬 **what is a single CMOS gate**
Hello, I can follow most of the courses material very well, but I still have a problem in understanding of what is a single CMOS gate. Y... **4**

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