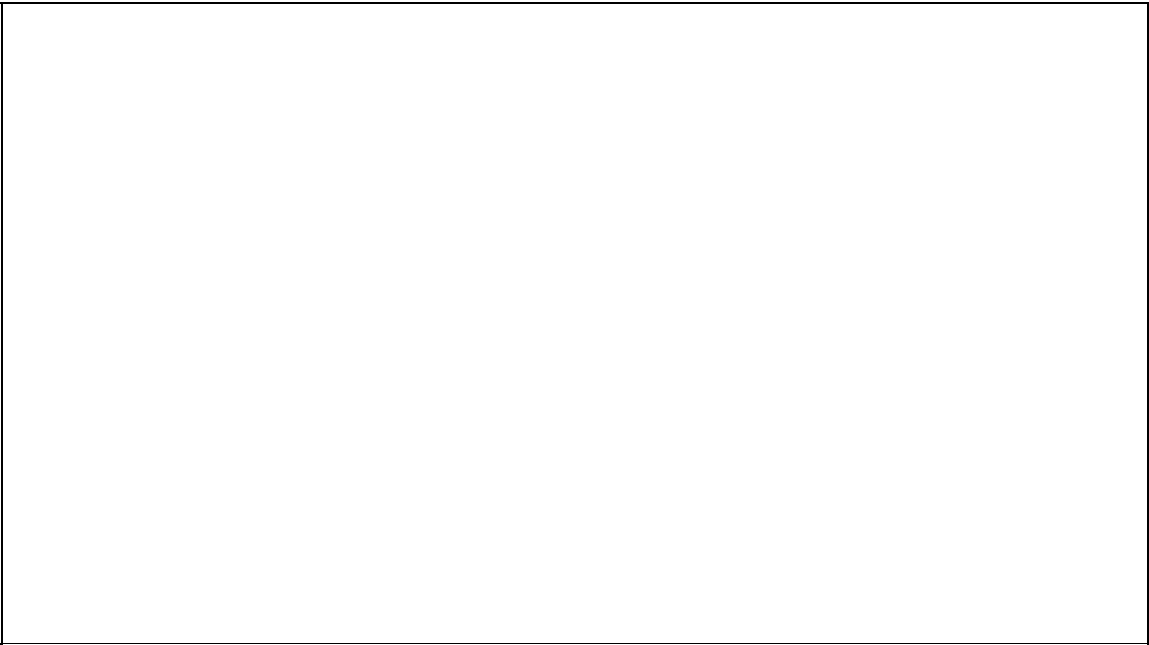


BASIC LOGIC GATES




	2:36 / 2:36	1.0x			
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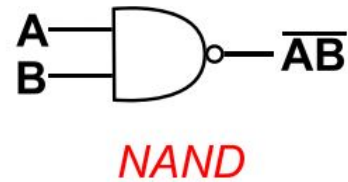
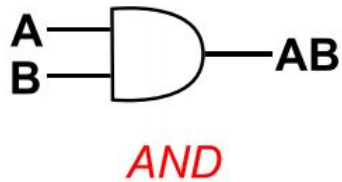
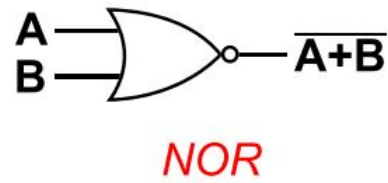
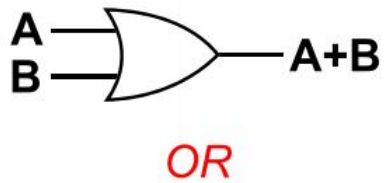
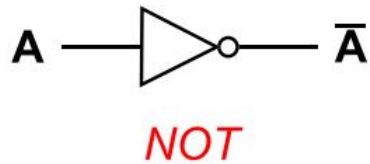
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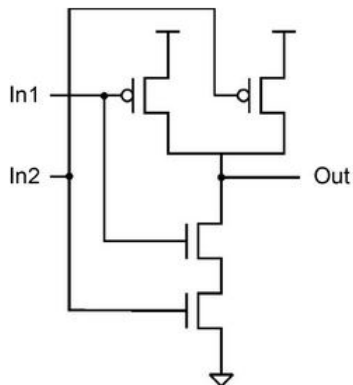
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Please click [here](#) to open the Basic Logic Gates Diagram in a new window. You can print it out by right-clicking on your mouse.



1. CHECK YOUR UNDERSTANDING

Consider the following CMOS circuit:



1 A. CHECK YOUR UNDERSTANDING (1/1 point)

Fill in the truth table values for Out. **You have only ONE submission.**

In1	In2	Out	
0	0	<input type="text" value="1"/>	Answer: 1
0	1	<input type="text" value="1"/>	Answer: 1
1	0	<input type="text" value="1"/>	Answer: 1
1	1	<input type="text" value="0"/>	Answer: 0

EXPLANATION

When either or both of the inputs are 0, a connection is made to the supply voltage and the connection to ground is broken, which makes the output a 1.

Only when both inputs are 1 is a connection made to ground and the connection to the supply voltage broken, which makes the output a 0.

[Hide Answer](#)*You have used 1 of 1 submissions*[Show Discussion](#)[New Post](#)**1 B. CHECK YOUR UNDERSTANDING** (1/1 point)

This circuit implements which of the following logic functions?

☐ AND☐ OR☒ NAND☐ NOR**EXPLANATION**

A NAND outputs a 0 when all inputs are 1 and a 1 otherwise.

[Final Check](#)[Save](#)[Hide Answer](#)*You have used 1 of 2 submissions*[Show Discussion](#)[New Post](#)

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