

# Which circuit has four and gates and two inverters

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A logic gate is a device that performs a Boolean function, a logical operation performed on one or more binary inputs that produces a single binary output. Depending on the context, the term may refer...

The NAND gate is the most important logic gate in digital electronics. It is one of the universal logic gates. Because other logical gates can be designed by using NAND gates only.

Logic gates are the basic building blocks of digital electronics. These are the components that we use for &#8220;doing stuff&#8221; with the 1s and 0s. You can combine them to create other building blocks like latches, flip-flops, adders, shift registers, and more.

All the gates are pretty easy to understand, and as you&#8217;ll see, their names give away what they do. I recommend you read through each gate explanation below, then get yourself some gates and test out how they work by building some test circuits.

The truth table is below, but all you really need to remember is that the AND gate needs a 1 on input A and input B to give out 1. All the logic gates have names that make their functionality, well, logical.

The simplest logic gate of all is the NOT gate. It takes one bit as input (A). And it gives as an output (Q) what is NOT on the input. So if there is a 1 on the input, its output is 0. And if there is 0 on the input, its output is 1. It&#8217;s also called an inverter.

The output from the buffer is the same as the input. So I wouldn&#8217;t consider it a part of the logic gates (since it doesn&#8217;t do any logical operation). But it&#8217;s sometimes included as a logic gate.

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