

# How can I perform the BITXOR function in Google Sheets?

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## RECOMMENDED CITATION

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The BITXOR function in Google Sheets is a logical function that allows users to perform a bitwise exclusive OR operation on two sets of binary data. This function compares each bit in the two sets and returns a result of 1 if only one of the bits is a 1, and 0 if both bits are either 0 or 1. To use the BITXOR function, users can simply enter the function and specify the two sets of data they want to compare. This function is useful for data analysis and manipulation in Google Sheets.

## BITXOR function

The BITXOR function is a bitwise XOR (exclusive or) of 2 numbers that returns a bit of "1" if 2 bits are different, and a bit of "0" otherwise. This function returns a number that's the result of performing an XOR function at each bit of the 2 given numbers.

### Parts of a BITXOR function

`BITXOR(value1, value2)`

Part	Description	Notes
<code>value1</code>	The first numeric value.	
<code>value2</code>	The second numeric value.	

### Sample formulas

`BITXOR(9, 5)`

`BITXOR(A1, A2)`

### Notes

Order doesn't matter for values. The result is the same regardless. Values don't necessarily have to be numbers. Instead, they may be coerced. For example, a string value of "3" can be coerced to be simply 3, and a Boolean value of TRUE can be coerced to 1.

### Examples

In the following example, we use BITXOR with values inlined into the function. The values 2 (represented as 10 in base 2) and 4 (represented as 100 in base 2) result in 6 (represented as 110 in base 2):

	A	B

1	Formula	Result
2	=BITXOR(2, 4)	6

In this example, values of 2 and 4 result in a BITXOR of 6. However, this time we use cell references to use as our values:

	A	B	C
1	Formula	Result	Reference cells
2	=BITXOR(2, 4)	6	2
3			4

## Related functions

**BITOR:** The BITOR function returns the bitwise Boolean OR of 2 numbers.  
**XOR:** The XOR function returns TRUE if an odd number of the provided arguments are logically true, and FALSE otherwise.