

How can I perform the XOR function in Google Sheets?

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The XOR function in Google Sheets is a logical function that allows users to compare two values and return a TRUE or FALSE result based on their logical relationship. This function can be used to perform exclusive or operations on binary data. To use the XOR function, simply enter the formula "`=XOR(value1, value2)`" into a cell, where value1 and value2 are the two values being compared. This function can help users analyze data and make logical decisions in their spreadsheets.

XOR function

The XOR function returns TRUE if an odd number of the provided arguments are logically true, and FALSE otherwise.

Parts of a XOR formula

`XOR(logical_expression1,)`

Part	Description	Notes
<code>logical_expression1</code>	An expression or reference to a cell containing an expression that represents some logical value, e.g. "TRUE" or "FALSE," or an expression that can be coerced to a logical value.	
<code>logical_expression2</code>	More expressions or cell references that represent logical values.	A second logical expression, and any additional expressions are optional.

Sample formulas

`XOR(TRUE, FALSE, TRUE)`

`XOR(A2=TRUE, A3=FALSE)`

`XOR(A1:A10, B1:B10)`

`XOR(0, 1, 2, 3)`

Notes

The number 0 is logically false. All other numbers (including negative numbers) are logically true.

The XOR function accepts both logical value and range parameters.

Returns TRUE if an odd number of arguments are TRUE.

Examples

	A	B
1	Result	Formula
2	TRUE	=XOR(TRUE())
3	FALSE	=XOR(FALSE())
4	FALSE	=XOR(0)
5	TRUE	=XOR(1)
6	TRUE	=XOR(-3)

	A	B	C	D
9	logical_expression1	logical_expression2	Result	Formula
10	TRUE	FALSE	TRUE	=XOR(A10,B10)
11	FALSE	FALSE	FALSE	=XOR(A11,B11)
12	TRUE	TRUE	FALSE	=XOR(A12,B12)
13	0	1	TRUE	=XOR(A13,B13)
14	1	5	FALSE	=XOR(A14,B14)

	A	B
17	Result	Formula
18	FALSE	=XOR(A12,B13)
19	FALSE	=XOR(B11,B12,B13)
20	TRUE	=XOR(B11,B14)

Related functions

OR: The OR function returns true if any of the provided arguments are logically true, and false if all of the provided arguments are logically false.

AND: The AND function returns true if all of the provided arguments are logically true, and false if any of the provided arguments are logically false.