

How can I use the IMTAN function in Google Sheets?

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The IMTAN function in Google Sheets is a mathematical tool that calculates the inverse tangent of a given number. It can be used to find the angle measure in a right triangle by inputting the opposite and adjacent sides. This function can also be used for various other mathematical calculations involving inverse tangents. To use the IMTAN function, simply enter the formula `"=IMTAN(number)"` into a cell, where "number" is the value for which you want to find the inverse tangent. This will return the result in radians. Overall, the IMTAN function is a useful tool for performing complex mathematical calculations in Google Sheets.

IMTAN function

The IMTAN function returns the tangent of the given complex number. For example, a given complex number "x+yi" returns "tan(x+yi)."

Parts of an IMTAN formula

`IMTAN (number)`

Part	Description	Notes
<code>number</code>	The complex number for which you want the tangent.	This can be either the result of the COMPLEX function, a real number (which will be interpreted as a complex number with imaginary part equal to 0), or a string in the format "x+yi" where x and y are numeric.

Sample formulas

`IMTAN (COMPLEX (4 , 6))`

`IMTAN (4)`

`IMTAN (" 2+3i ")`

Notes

The IMTAN function returns an error if the given number isn't a valid complex number or if the tangent function is undefined for the given number.

Examples

	A	B
1	Formula	Result
2	<code>=IMTAN(COMPLEX(4, 3))</code>	0.00490825806749606+1.00070953606723i

3	=IMTAN(0.213)	0.216280749620508
4	=IMTAN("2-2i")	-0.0283929528682323-1.02383559457047i

Related functions

COMPLEX: The COMPLEX function creates a complex number, given real and imaginary coefficients. IMSIN: The IMSIN function returns the sine of the given complex number. IMCOS: The IMCOS function returns the cosine of the given complex number.

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