

How can I use the IMTANH function in Google Sheets?

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The IMTANH function in Google Sheets is a mathematical function that calculates the hyperbolic tangent of a given number. It can be used to analyze and manipulate data in a spreadsheet by providing the inverse of the hyperbolic tangent function. To use this function, simply enter the desired number as the input and the function will return the corresponding hyperbolic tangent value. This can be particularly useful for analyzing and graphing data sets in Google Sheets. By incorporating the IMTANH function, users can easily perform complex calculations and gain a deeper understanding of their data.

IMTANH function

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

Parts of an IMTANH function

IMTANH (number)

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

Sample formulas

IMTANH (COMPLEX (4 , 6))

IMTANH (4)

IMTANH (" 2+3i ")

Notes

The `IMTANH` function returns an error if the given number isn't a valid complex number.

Examples

	A	B
1	Formula	Result
2	=IMTANH (COMPLEX (4 , 1))	1.00027905623447+0.00061024092137626i

3	=IMTANH(3.5)	0.998177897611199
4	=IMTANH("3+2i")	1.00323862735361-0.00376402564150425i

Related functions

IMTAN: The IMTAN function returns the tangent of the given complex number.COMPLEX: The COMPLEX function creates a complex number, given real and imaginary coefficients.

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