

How can I use the IMCOTH function in Google Sheets?

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The IMCOTH function in Google Sheets is a mathematical tool that calculates the inverse hyperbolic cotangent of a given number. It can be used to find the inverse of the hyperbolic cotangent function, which is often used in calculus and other mathematical equations. To use the IMCOTH function, simply enter the desired number as the function's argument and it will return the result. This function is useful for data analysis, financial modeling, and other applications that require complex mathematical calculations. It can be accessed through the "Insert Function" button in Google Sheets and is a powerful tool for advanced users looking to streamline their data analysis process.

IMCOTH function

The IMCOTH function returns the hyperbolic cotangent of the given complex number. For example, a given complex number "x+yi" returns "coth(x+yi)."

Parts of an IMCOTH function

`IMCOTH (number)`

Part	Description	Notes
<code>number</code>	The complex number for which you want the hyperbolic cotangent.	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

`IMCOTH (COMPLEX (4 , 6))`

`IMCOTH (4)`

`IMCOTH ("2+3i")`

Notes

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

Examples

	A	B
1	Formula	Result

2	=IMCOTH (COMPLEX (4 , 1))	0.999720649533931-0.000609900253822228i
3	=IMCOTH (3 . 5)	1.00182542850644
4	=IMCOTH (" 3+2i ")	0.996757796569358+0.00373971037633696i

Related functions

IMTAN: The IMTAN function returns the tangent of the given complex number.

IMCOT: The IMCOT function returns the cotangent of the given complex number.

COMPLEX: The COMPLEX function creates a complex number, given real and imaginary coefficients.