

How can I use the IMSINH function in Google Sheets?

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The IMSINH function in Google Sheets is a mathematical function that calculates the inverse hyperbolic sine of a given number. This function can be used to solve complex mathematical equations involving trigonometric functions. To use the IMSINH function, simply enter the desired number as the input in the function's syntax and the result will be displayed. This function is useful for advanced mathematical calculations and can be easily accessed in the Google Sheets formula bar.

IMSINH function

The IMSINH function returns the hyperbolic sine of the given complex number. For example, a given complex number "x+yi" returns "sinh(x+yi)."

Parts of an IMSINH function

IMSINH (number)

Part	Description	Notes
number	The complex number for which you want the hyperbolic sine.	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

IMSINH (COMPLEX (4 , 6))

IMSINH (4)

IMSINH (" 2+3i ")

Notes

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

Examples

	A	B
1	Formula	Result
2	=IMSINH (COMPLEX (4 , 1))	14.7448051885587+22.9790855778861i
3	=IMSINH (3 . 5)	16.542627287635

4	=IMSINH("3+2i")	-4.16890695996657+9.15449914691143i
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Related functions

IMSIN: The IMSIN function returns the sine of the given complex number.

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

IMCOSH: The IMCOSH function returns the hyperbolic cosine of the given complex number.

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