

How can I use the IMSQRT function in Google Sheets?

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The IMSQRT function in Google Sheets is a mathematical tool that allows users to calculate the square root of complex numbers. This function takes in two arguments - the real and imaginary parts of the complex number - and returns the square root in its simplified form. To use the IMSQRT function, simply enter the function name followed by the real and imaginary numbers separated by a comma within the parentheses. This enables users to perform complex mathematical calculations efficiently and accurately within a Google Sheets spreadsheet.

IMSQRT function

The IMSQRT function computes the square root of a complex number.

Parts of a IMSQRT function

The IMSQRT formula is formatted as `=IMSQRT(complex_number)`.

Part	Description	Notes
complex_number	The complex number to take the square root of.	

Sample formulas

`IMSQRT(2)`

`IMSQRT("3+2i")`

Notes

This function is equivalent to using `IMPOWER(complex_number, 0.5)`. While it is not possible to use the SQRT function to take the square root of a negative real number, it is possible to use IMSQRT to take the square root of a complex number with a negative real number component.

Examples

	A	B
1	Formula	Result
2	<code>=IMSQRT(4)</code>	2
3	<code>=IMSQRT("3+4i")</code>	2+i
4	<code>=IMSQRT("3-4j")</code>	2-j
5	<code>=IMSQRT(COMPLEX(3, 4))</code>	2+i

Related functions

IMPOWER: The IMPOWER function returns a complex number raised to a power.

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

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