

How do I use the IMCONJUGATE function in Excel?

Authored by
stats writer

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The IMCONJUGATE function in Excel is used to find the complex conjugate of a given complex number. The function takes one argument, the complex number, and returns its conjugate. The complex conjugate of a complex number is the number with the same real part but an opposite imaginary part. This function is particularly useful in mathematical and engineering calculations involving complex numbers. To use the IMCONJUGATE function, simply enter the complex number as the argument and press enter. The result will be displayed in the cell. This function can be used in various ways, such as finding the magnitude of a complex number or simplifying complex fractions. It is a useful tool for working with complex numbers in Excel.

This article describes the formula syntax and usage of the **IMCONJUGATE** function in Microsoft Excel.

Description

Returns the complex conjugate of a complex number in $x + yi$ or $x + yj$ text format.

Syntax

IMCONJUGATE(inumber)

The IMCONJUGATE function syntax has the following arguments:

Inumber Required. A complex number for which you want the conjugate.

Remarks

Use COMPLEX to convert real and imaginary coefficients into a complex number.

The conjugate of a complex number is:

$$\text{IMCONJUGATE}(x + yi) = \bar{z} = (x - yi)$$