

How can I use the COMPLEX function in Excel to perform calculations with complex numbers?

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June 29, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I use the COMPLEX function in Excel to perform calculations with complex numbers?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=157955>

The COMPLEX function in Excel allows users to perform calculations with complex numbers. This function takes in two arguments, the real and imaginary parts of a complex number, and returns the corresponding complex number. It can be used in various mathematical operations such as addition, subtraction, multiplication, and division with other complex numbers. The use of the COMPLEX function can simplify complex number calculations and provide accurate results in a spreadsheet. It is a useful tool for users who work with complex numbers in their data analysis and calculations.

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

Description

Converts real and imaginary coefficients into a complex number of the form $x + yi$ or $x + yj$.

Syntax

COMPLEX(real_num, i_num,)

The COMPLEX function syntax has the following arguments:

Real_num Required. The real coefficient of the complex number.

I_num Required. The imaginary coefficient of the complex number.

Suffix Optional. The suffix for the imaginary component of the complex number. If omitted, suffix is assumed to be "i".

Note: All complex number functions accept "i" and "j" for suffix, but neither "I" nor "J". Using uppercase results in the #VALUE! error value. All functions that accept two or more complex numbers require that all suffixes match.

Remarks

If real_num is nonnumeric, COMPLEX returns the #VALUE! error value.

If i_num is nonnumeric, COMPLEX returns the #VALUE! error value.

If suffix is neither "i" nor "j", COMPLEX returns the #VALUE! error value.