

How do I use the IMABS function in Excel?

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The IMABS function in Excel is a mathematical tool that allows users to find the absolute value of a complex number. This function can be used in various scenarios, such as calculating the magnitude of a vector or finding the distance between two points in the complex plane. To use the IMABS function, simply input the complex number as the argument and the function will return the absolute value. This function is especially useful for users who work with complex numbers and need to perform calculations involving their magnitudes. It is easily accessible in the "Formulas" tab under the "Math & Trig" category in Excel. By understanding and utilizing the IMABS function, users can efficiently handle complex numbers and perform accurate calculations in their Excel spreadsheets.

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

Description

Returns the absolute value (modulus) of a complex number in $x + yi$ or $x + yj$ text format.

Syntax

IMABS(inumber)

The IMABS function syntax has the following arguments:

Inumber Required. A complex number for which you want the absolute value.

Remarks

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

The absolute value of a complex number is:

$$\text{IMABS}(z) = |z| = \sqrt{x^2 + y^2}$$

where:

$$z = x + yi$$