

How do you use the IMPRODUCT function in Excel?

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The IMPRODUCT function in Excel is a mathematical formula used to calculate the product of a given set of complex numbers. It takes multiple arguments as inputs and returns the product of those numbers. To use this function, simply enter the values or cell references of the numbers you want to multiply, separated by commas, within the parentheses of the formula. The result will be a single complex number. This function is particularly useful for performing complex calculations in financial and scientific data analysis.

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

Description

Returns the product of 1 to 255 complex numbers in $x + yi$ or $x + yj$ text format.

Syntax

IMPRODUCT(inumber1, , ...)

The IMPRODUCT function syntax has the following arguments:

Inumber1, , ... Inumber1 is required, subsequent innumbers are not. 1 to 255 complex numbers to multiply.

Remarks

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

The product of two complex numbers is:

$$(a + bi)(c + di) = (ac - bd) + (ad + bc)i$$