

How can I use the ACOTH function in Excel?

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The ACOTH function in Excel is a mathematical function that calculates the inverse hyperbolic cotangent of a given number. This function can be used to solve complex mathematical equations or to find the angle of a right triangle. To use the ACOTH function, simply enter the desired number as the argument within the function's parentheses. The result will be the inverse hyperbolic cotangent of that number. This function can be useful for professionals, students, and anyone working with mathematical data in Excel. It provides an efficient and accurate way to solve complex equations and obtain precise measurements.

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

Description

Returns the inverse hyperbolic cotangent of a number.

Syntax

ACOTH(number)

The ACOTH function syntax has the following arguments.

Number

Required. The absolute value of Number must be greater than 1.

Remarks

The hyperbolic arccotangent is an analog of the ordinary (circular) arccotangent.

If Number is less than 1, ACOTH returns the #NUM! error value.

If the absolute value of Number is less than 1, ACOT returns the #VALUE! error value.

This mathematical equation is used:

$$\operatorname{coth}(N) = \frac{1}{2} \ln\left(\frac{x+1}{x-1}\right)$$