

# How do I use the COSH function in Excel?

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The COSH function in Excel is a mathematical function that calculates the hyperbolic cosine of a given angle. This function can be used to solve various mathematical equations and can be particularly useful in statistics, engineering, and finance. To use the COSH function in Excel, simply enter the formula "=COSH(angle)" into a cell and replace "angle" with the actual value you want to calculate. The result will be displayed in the cell. The angle can be entered in either degrees or radians, depending on your preference. The COSH function is a useful tool for performing complex calculations in Excel and can save time and effort in solving mathematical problems.

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

## Description

Returns the hyperbolic cosine of a number.

## Syntax

COSH(number)

The COSH function syntax has the following arguments:

**Number** Required. Any real number for which you want to find the hyperbolic cosine.

## Remark

The formula for the hyperbolic cosine is:

$$\text{COSH}(z) = \frac{e^z + e^{-z}}{2}$$