

How can I use the ACOTH function in Google Sheets to find the inverse hyperbolic cotangent of a given number?

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June 30, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I use the ACOTH function in Google Sheets to find the inverse hyperbolic cotangent of a given number?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=160422>

The ACOTH function in Google Sheets allows users to find the inverse hyperbolic cotangent of a given number. This function takes a numerical input and returns the inverse hyperbolic cotangent value in radians. This can be useful for solving mathematical problems involving hyperbolic functions. To use the ACOTH function, simply enter the desired number as the argument and the function will calculate and display the result. It is important to note that the input value must be between -1 and 1, and any other value will result in an error. This function can be accessed through the formula bar or by using the "Insert Function" feature in Google Sheets.

ACOTH function

The ACOTH function returns the inverse hyperbolic cotangent of a value in radians.

Parts of an ACOTH function

ACOTH(value)

Part	Description	Notes
value	The value for which to calculate the inverse hyperbolic cotangent.	Values must not be a number between -1 and 1.

Sample formulas

ACOTH(2)

ACOTH(10)

ACOTH(A1)

Notes

If a number between -1 and 1 is passed to ACOTH, then the #NUM error is returned. ACOTH is sometimes written as "arccoth" or "coth-1(x)" in mathematics or other programs. Use the DEGREES function to convert the result of ACOTH from radians to degrees.

Examples

	A	B	C
1	Date	Formula	Result
2	4	=ACOTH(A2)	0.2554128119

3	-4	=ACOTH(A3)	-0.2554128119
4		=ACOTH(10)	0.1003353477

Related functions

ACOT: The ACOT function returns the inverse cotangent of a value in radians. COTH: The COTH function returns the hyperbolic cotangent of any real number. COT: The COT function returns the cotangent of an angle provided in radians. ATANH: The ATANH function returns the inverse hyperbolic tangent of a number. ATAN: The ATAN function returns the inverse tangent of a value in radians. ASINH: The ASINH function returns the inverse hyperbolic sine of a number. ASIN: The ASIN function returns the inverse sine of a value in radians. ACOSH: The ACOSH function returns the inverse hyperbolic cosine of a number. ACOS: The ACOS function returns the inverse cosine of a value in radians. DEGREES: The DEGREES function converts an angle value in radians to degrees. RADIANS: The RADIANS function converts an angle value in degrees to radians. PI: The PI function returns the value of pi to 9 decimal places.