The mathematical functions in Data Analysis Expressions (DAX) are very similar to the Excel mathematical and trigonometric functions. This section lists the mathematical functions provided by DAX.

Some Examples:

[DIVIDE](https://docs.microsoft.com/en-us/dax/divide-function-dax)

Performs division and returns alternate result or BLANK() on division by 0

[SUM](https://docs.microsoft.com/en-us/dax/sum-function-dax)

Adds all the numbers in a column.

[SUMX](https://docs.microsoft.com/en-us/dax/sumx-function-dax)

Returns the sum of an expression evaluated for each row in a table.

=ABS([DealerPrice]-[ListPrice])

|  |  |  |
| --- | --- | --- |
| =ACOS(-0.5) | Arccosine of -0.5 in radians, 2\*pi/3. | 2.094395102 |
| =ACOS(-0.5)\*180/PI() | Arccosine of -0.5 in degrees. | 120 |

| **Formula** | **Description** | **Result** |
| --- | --- | --- |
| =ACOSH(1) | Inverse hyperbolic cosine of 1. | 0 |
| =ACOSH(10) | Inverse hyperbolic cosine of 10. | 2.993228 |

| **Function** | **Description** |
| --- | --- |
| [ABS](https://docs.microsoft.com/en-us/dax/abs-function-dax) | Returns the absolute value of a number. |
| [ACOS](https://docs.microsoft.com/en-us/dax/acos-function-dax) | Returns the arccosine, or inverse cosine, of a number. |
| [ACOSH](https://docs.microsoft.com/en-us/dax/acosh-function-dax) | Returns the inverse hyperbolic cosine of a number. |
| [ASIN](https://docs.microsoft.com/en-us/dax/asin-function-dax) | Returns the arcsine, or inverse sine, of a number. |
| [ASINH](https://docs.microsoft.com/en-us/dax/asinh-function-dax) | Returns the inverse hyperbolic sine of a number. |
| [ATAN](https://docs.microsoft.com/en-us/dax/atan-function-dax) | Returns the arctangent, or inverse tangent, of a number. |
| [ATANH](https://docs.microsoft.com/en-us/dax/atanh-function-dax) | Returns the inverse hyperbolic tangent of a number. |
| [CEILING](https://docs.microsoft.com/en-us/dax/ceiling-function-dax) | Rounds a number up, to the nearest integer or to the nearest multiple of significance. |
| [COMBIN](https://docs.microsoft.com/en-us/dax/combin-function-dax) | Returns the number of combinations for a given number of items. |
| [COMBINA](https://docs.microsoft.com/en-us/dax/combina-function-dax) | Returns the number of combinations (with repetitions) for a given number of items. |
| [COS](https://docs.microsoft.com/en-us/dax/cos-function-dax) | Returns the cosine of the given angle. |
| [COSH](https://docs.microsoft.com/en-us/dax/cosh-function-dax) | Returns the hyperbolic cosine of a number. |
| [CURRENCY](https://docs.microsoft.com/en-us/dax/currency-function-dax) | Evaluates the argument and returns the result as currency data type. |
| [DEGREES](https://docs.microsoft.com/en-us/dax/degrees-function-dax) | Converts radians into degrees. |
| [DIVIDE](https://docs.microsoft.com/en-us/dax/divide-function-dax) | Performs division and returns alternate result or BLANK() on division by 0. |
| [EVEN](https://docs.microsoft.com/en-us/dax/even-function-dax) | Returns number rounded up to the nearest even integer. |
| [EXP](https://docs.microsoft.com/en-us/dax/exp-function-dax) | Returns e raised to the power of a given number. |
| [FACT](https://docs.microsoft.com/en-us/dax/fact-function-dax) | Returns the factorial of a number, equal to the series 1\*2\*3\*...\* , ending in the given number. |
| [FLOOR](https://docs.microsoft.com/en-us/dax/floor-function-dax) | Rounds a number down, toward zero, to the nearest multiple of significance. |
| [GCD](https://docs.microsoft.com/en-us/dax/gcd-function-dax) | Returns the greatest common divisor of two or more integers. |
| [INT](https://docs.microsoft.com/en-us/dax/int-function-dax) | Rounds a number down to the nearest integer. |
| [ISO.CEILING](https://docs.microsoft.com/en-us/dax/iso-ceiling-function-dax) | Rounds a number up, to the nearest integer or to the nearest multiple of significance. |
| [LCM](https://docs.microsoft.com/en-us/dax/lcm-function-dax) | Returns the least common multiple of integers. |
| [LN](https://docs.microsoft.com/en-us/dax/ln-function-dax) | Returns the natural logarithm of a number. |
| [LOG](https://docs.microsoft.com/en-us/dax/log-function-dax) | Returns the logarithm of a number to the base you specify. |
| [LOG10](https://docs.microsoft.com/en-us/dax/log10-function-dax) | Returns the base-10 logarithm of a number. |
| [MROUND](https://docs.microsoft.com/en-us/dax/mround-function-dax) | Returns a number rounded to the desired multiple. |
| [ODD](https://docs.microsoft.com/en-us/dax/odd-function-dax) | Returns number rounded up to the nearest odd integer. |
| [PI](https://docs.microsoft.com/en-us/dax/pi-function-dax) | Returns the value of Pi, 3.14159265358979, accurate to 15 digits. |
| [POWER](https://docs.microsoft.com/en-us/dax/power-function-dax) | Returns the result of a number raised to a power. |
| [PRODUCT](https://docs.microsoft.com/en-us/dax/product-function-dax) | Returns the product of the numbers in a column. |
| [PRODUCTX](https://docs.microsoft.com/en-us/dax/productx-function-dax) | Returns the product of an expression evaluated for each row in a table. |
| [QUOTIENT](https://docs.microsoft.com/en-us/dax/quotient-function-dax) | Performs division and returns only the integer portion of the division result. |
| [RADIANS](https://docs.microsoft.com/en-us/dax/radians-function-dax) | Converts degrees to radians. |
| [RAND](https://docs.microsoft.com/en-us/dax/rand-function-dax) | Returns a random number greater than or equal to 0 and less than 1, evenly distributed. |
| [RANDBETWEEN](https://docs.microsoft.com/en-us/dax/randbetween-function-dax) | Returns a random number in the range between two numbers you specify. |
| [ROUND](https://docs.microsoft.com/en-us/dax/round-function-dax) | Rounds a number to the specified number of digits. |
| [ROUNDDOWN](https://docs.microsoft.com/en-us/dax/rounddown-function-dax) | Rounds a number down, toward zero. |
| [ROUNDUP](https://docs.microsoft.com/en-us/dax/roundup-function-dax) | Rounds a number up, away from 0 (zero). |
| [SIGN](https://docs.microsoft.com/en-us/dax/sign-function-dax) | Determines the sign of a number, the result of a calculation, or a value in a column. |
| [SQRT](https://docs.microsoft.com/en-us/dax/sqrt-function-dax) | Returns the square root of a number. |
| [SUM](https://docs.microsoft.com/en-us/dax/sum-function-dax) | Adds all the numbers in a column. |
| [SUMX](https://docs.microsoft.com/en-us/dax/sumx-function-dax) | Returns the sum of an expression evaluated for each row in a table. |
| [TRUNC](https://docs.microsoft.com/en-us/dax/trunc-function-dax) | Truncates a number to an integer by removing the decimal, or fractional, part of the number. |