#### Functions

A function is a predefined procedure that computes and returns a result. Functions defined below with a parameter list of list accept two or more arguments separated by commas (,) or semicolons (;). As to which [separator](separator.docx) is permitted, is defined by the document's [listSeparator](listSeparator.docx) (§) element. Arguments to functions can be constants, formulas, or bookmark names that refer to constants or formulas. The functions AVERAGE, COUNT, MAX, MIN, PRODUCT, and SUM can also accept references to [table](table.docx) cells as arguments. In the context of a [table](table.docx) cell, functions taking a list also accept a single argument that designates a named-list of contiguous cells (§). Function names are not case-sensitive, and white space can occur [between](between.docx) a function's name and its argument list, if any.

The functions supported are as follows:

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| Functions | |
| Function | Description |
| ABS(x) | Returns the absolute value of x. |
| AND(x,y) | Returns 1 if the logical expressions x and y are both true; otherwise, it returns 0. |
| AVERAGE(list) | Returns the average value of the items in list. |
| COUNT(list) | Returns the number of items in list. |
| DEFINED(x) | Returns 1 if the expression x is well formed; otherwise, it returns 0. |
| FALSE | Returns 0. |
| INT(x) | Returns the value of the integer part of x. |
| MAX(list) | Returns the largest value in list. |
| MIN(list) | Returns the smallest value in list. |
| MOD(x,y) | Returns the value x - ny, for some integer n such that, if y is nonzero, the [result](result.docx) has the same sign as x and magnitude less than the magnitude of y. If y is zero, a diagnostic shall be issued. (y need not be a whole number.) [Example:  MOD(21,5) results in 1 MOD(21,-5) results in 1 MOD(-21,5) results in -1 MOD(-21,-5) results in -1  end example] |
| NOT(x) | Returns 0 if the logical expression x is true, or 1 if the expression is false. |
| OR(x,y) | Returns 1 if either or both logical expressions x and y are true; otherwise, it returns 0. |
| PRODUCT(list) | Returns the [result](result.docx) of multiplying together all members in list. |
| ROUND(x,y) | Returns the value of x rounded to the specified number of decimal places indicated by floor(y), where floor has the mathematical meaning. If y is negative, any fractional part is discarded and the integer part of the value is rounded to the corresponding power of 10. |
| SIGN(x) | Returns 1 if x is positive; returns 0 if x is zero; and returns –1 if x is negative. |
| SUM(list) | Returns the sum of the items in list. |
| TRUE | Returns 1. |