1F - Standard Functions (author: Tao Yue, state: unchanged)

value := sin (3.1415926535897932);

## Standard Functions

abs absolute value

cos

arctan arctan in radians

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real or integer same as argument

real

real or integer real

Pascal has several standard mathematical functions that you can utilize. For example, to find the value of sin of pi radians:

Functions are called by using the function name followed by the argument(s) in parentheses. Standard Pascal functions include:



navigation

■ Documentation

■ Downloads

■ Index

Random page

search

**Go** Search

- tools
- Related changes
- Printable version
- Page information

In natural logarithm real or integer real round round to nearest integer real integ integer sin sin of a radian measure real or integer real 
 sqr
 square (power 2)
 real or integer
 same as argument

 sqrt
 square root (power 1/2)
 real or integer
 real
trunc truncate (round down) real or integer integer

Function Description Argument type Return type

cosine of a radian measure real or integer

exp e to the given power real or integer real

For ordinal data types (integer or char), where the allowable values have a distinct predecessor and successor, you can use these functions:

Function	Description	Argument type	Return type
chr	character with given ASCII value	integer	char
ord	ordinal value	integer or char	integer
pred	predecessor	integer or char	same as argument type
succ	successor	integer or char	same as argument type

Real is not an ordinal data type! That's because it has no distinct successor or predecessor. What is the successor of 56.0? Is it 56.1, 56.01, 56.001, 56.001?

Note that the sin function operates on angular measure stated in radians, as do all the trigonometric functions. If everything goes well, value should become 0.

However, for an integer 56, there is a distinct predecessor — 55 — and a distinct successor — 57.

The same is true of characters:

Successor: 'c' Predecessor: 'a'

The above is not an exhaustive list, as modern Pascal compilers include thousands of functions for all sorts of purposes. Check your compiler documentation for more



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