**cos**

*Function of calculating cosine of real or complex number.*

**Syntax:**

*y* **= cos***(x);*

**Arguments:**

*x* – input value.

**Description:**

*cos(x)* – function of calculating cosine of real or complex number.

Input value can be both real and complex number.

Input value can be assigned either as a preliminarily determined variable, or as a constant number.

A complex number shall be assigned by the expression *a*+*b*i, where *a* and *b* are real and virtual number parts, accordingly.

**Result:**

*y* – cosine of input value *x*.

**Example 1:**

*Cosine* *of real number*

|  |  |
| --- | --- |
|  | **const** x = **pi**;  y = **cos**(x); |

As a result, variable *y* will be assigned a value -1.

**Example 2:**

*Cosine* *of complex number*

|  |  |
| --- | --- |
|  | y = **cos**(3+4i); |

As a result, variable *y* will be assigned a value -27.034946-3.8511533i.