**lg**

*Function of calculating decimal logarithm of real or complex number.*

**Syntax:**

*y* **= lg***(x);*

**Arguments:**

*x* – input value.

**Description:**

*lg(x)* –function of calculating decimal logarithm of real or complex number.

The input value can be both real and complex number.

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

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

**Result:**

*y* – decimal logarithm of input value *x*.

**Example 1:**

*Decimal logarithm* *of real number*

|  |  |
| --- | --- |
|  | **const** x = 5;  y =**lg**(x); |

As a result, variable *y* will be assigned a value 0.69897.

**Example 2:**

*Decimal logarithm* *of complex number*

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

As a result, variable *y* will be assigned a value 0.69897+0.4027192i.