**ctg**

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

**Syntax:**

*y* **= ctg***(x);*

**Arguments:**

*x* – input value.

**Description:**

*ctg(x)* – function of calculating cotangent 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 shall be assigned by the expression *a*+*b*i, where *a* and *b* are real and virtual number parts, accordingly.

**Result:**

*y* – cotangent of input value *x*.

**Example 1:**

*Cotangent* *of real number*

|  |  |
| --- | --- |
|  | **const** x = **pi**/6;  y = **ctg**(x); |

As a result, variable *y* will be assigned value 1.7320508.

**Example 2:**

*Cotangent* *of complex number*

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

As a result, variable *y* will be assigned value -0.00018758774-1.0006444i.