**det**

*Function of calculating matrix determinant.*

**Syntax:**

*d* = **det**(*M*);

**Arguments:**

*M* – input matrix.

**Description:**

*det(M)* – function returns a value of matrix determinant. Matrix *M* shall be square.

Input matrix *М* can be assigned:

* as variable of matrix type determined earlier:

*d* = **det**(*M*);

* as matrix consisting of variables determined earlier:

*d* = **det**([[*x1,x2*],[*x3,x4*],[*x5,x6*]]);

* as constant array:

*d* = **det**([[1,2],[3,4],[5,6]]);

**Result:**

*d* – value of matrix determinant *M.*

**Example:**

|  |  |
| --- | --- |
|  | **const**M = [[2, 2, 1, 3, 4], [3, 1, 2, 3, 1], [4, -1, 2, 4, -2], [1, -1, 1, 1, 2], [4, -1, 2, 5, 6]];  d = **det**(M); //15 |

As a result, variable d will be assigned a value of matrix determinant *М* equal to 15.