**getangle**

*Function of determination of angle between polar axis and preset vector.*

**Syntax:**

*a* **= getangle**(*P1, P2*)*;*

**Arguments:**

*P1* – first vector point. Type – *point*,

*P2* – second vector point. Type – *point*,

**Description:**

*getangle(P1, P2)* – function of determination of angle between polar axis and vector preset by points *P1*, *P2* in Cartesian coordinate system. The angle is determined in radians.

Polar axis is a beam setting the polar coordinate system. The point, from which the beam is originated, is referred to a datum point or a pole. Any point on a plane is determined by two polar coordinates: radial and angular.

Input values can be set as pre-defined variables or be set by expression (*x, y)*, where *x* and *y* are for the point coordinates.

**Result:**

*a* – angle to be determined.

**Example:**

|  |  |
| --- | --- |
|  | **const**  p1 = (1,3),  p2 = (4,6);  **a = getangle**(p1, p2); |

As a result, variable *а* will be assigned a value 0.78539816.