**excenter**

*Function of calculation of distance from point to straight line.*

**Syntax:**

*s* **= excenter**(*P1, P2, P3*)*;*

**Arguments:**

*P1* – coordinates of the first point setting the straight line. Type – *point*,

*P2* – coordinates of the second point setting the straight line. Type – *point*,

*P3* – coordinates of the point. Type – *point*.

**Description:**

*excenter(P1, P2, P3)* – function of calculation of distance from point *P3* to the straight line set by points *P1*, *P2*.

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:**

*s* – calculated distance.

**Example:**

|  |  |
| --- | --- |
|  | **const** p1 = (1,3),  p2 = (4,6),  p3 = (7,2);  **s = excenter**(p1, p2, p3); |

As a result, value 4.2 will be assigned to variable *s*.