#### IMSQRT

[Syntax](Syntax.docx):

IMSQRT ( complex-number )

Description: Computes the square root of the complex number complex-number.

Mathematical Formula:



where:



and:



and:



Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| complex-number | [text](text.docx) | The complex number for which the square root is being computed. complex-number shall be in x + yi or x + yj text format. |

Return Type and Value: text – A string containing the square root of complex-number, in x+yi or x+yj text format.

However, if complex-number is ill-formed, #NUM! is returned.

[Example:

IMSQRT("2.3+4.5i") results in 1.91751290835255+1.17339496918073i
IMSQRT("-1-4j") results in 1.24962106768765-1.60048518044024j

end example]