#### BESSELI

[Syntax](Syntax.docx):

BESSELI ( x , [n](n.docx) )

Description: The modified Bessel function In(x), which is equivalent to the Bessel function Jn(x) evaluated for purely imaginary arguments.

Mathematical Formula:

The n-th order modified Bessel function of the variable x is:

Equation

Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| [x](x.docx) | number | The value at which to evaluate the function. |
| [n](n.docx) | number | The order of the Bessel function. This value is truncated to an integer. |

Return Type and Value: number – The Bessel function In(x).

However, if [n](n.docx) < 0, #NUM! is returned.

[Example:  
  
BESSELI(-5.6,0) results in 46.73755194  
BESSELI(2.345,5) results in 0.023137792  
  
end example]