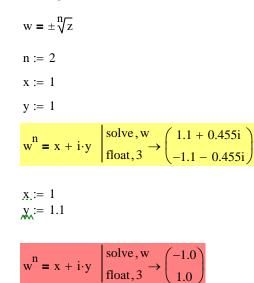
Complex numbers



Example : Solve for z. z = complex

Example values for x, y, and for the n-th root. x, y, and n = integers. Express z by $z = x + i \cdot y$

ΟΚ

Example values for x, y. In this example y is a floating number. You can also choose x as a floating number, or both.

NOK

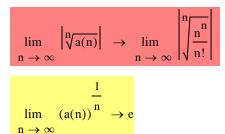
As long as x and /or y are integers the results are correct. This is valid for $n \ge 2$. I've not verified it for n = real, in general.

Does Mathcad 15 have any Problems when solving for complex numbers ?

Limits

$$a(n) := \frac{n^n}{n!}$$
$$q(n) := \frac{a(n)}{a(n+1)} \rightarrow \left(\frac{n}{n+1}\right)$$

$$\lim_{n \to \infty} |q(n)| \to e^{-1}$$



n := n Reset for sure

Coefficients formula as an example

Using the ratio test.

ΟΚ

??? Using the Cauchy-Hadamard formula.

But this works.

As long as the root sign together with the limit operator isn't used the calculation of the limit is correct.

Does Mathcad 15 have any problems with the limit and/or the root functions?