

O O P Ex 1

Wiki

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This Ex1 project is an java project in OOP contains Multiple classes and all the detailed information on how to use this are in the Javadoc pdf included in the git repository

The project is mainly about Monom's Polynoms and ComplexFunctions and support multiple methods such as calculating the function value of x at the point, root and area for the Polynom function type, Draw a graph of a function , equal between a function and much more.

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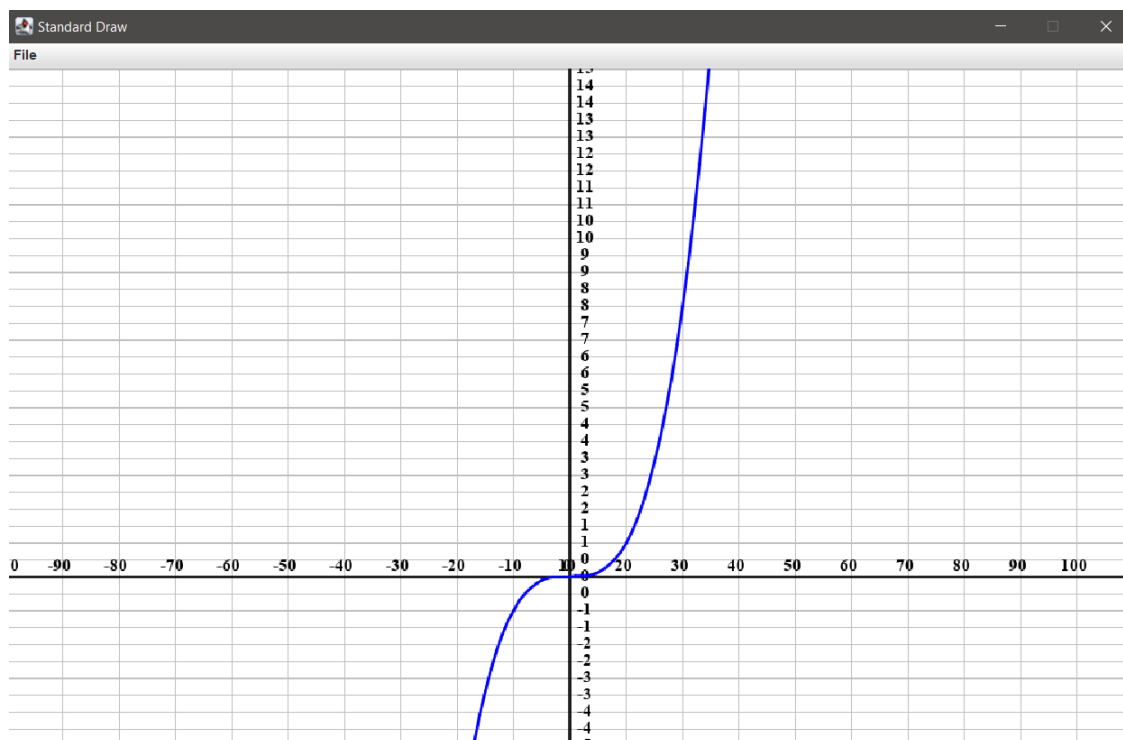
The Monom class

MONOMIAL

From Wikipedia, the free encyclopedia

In [mathematics](#), a **monomial** is, roughly speaking, a [polynomial](#) which has only one term. Two definitions of a monomial may be encountered.

In the picture you can see the Monom of x^3 drawn by the draw function of the project



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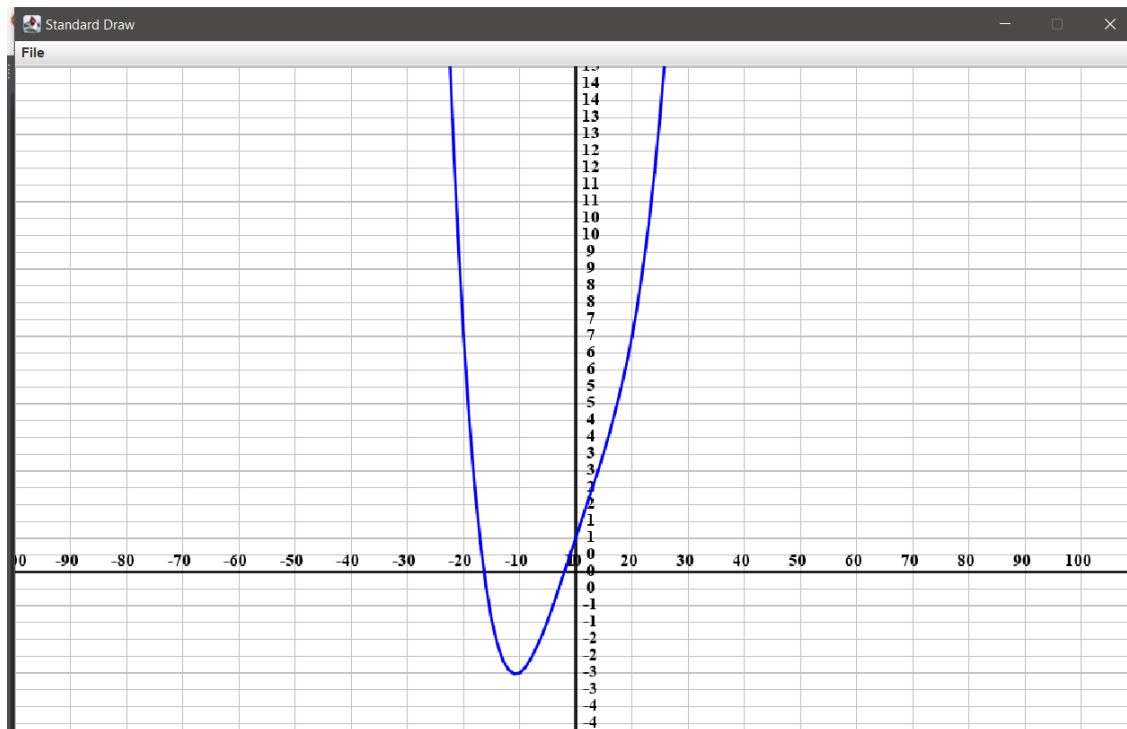
The Polynom class

POLYNOMIAL

From Wikipedia, the free encyclopedia

In mathematics, a polynomial is an expression consisting of variables (also called indeterminates) and coefficients, that involves only the operations of addition, subtraction, multiplication, and non-negative integer exponents of variables.

In the picture you can see the Polynom of x^4+5x+1 drawn by the draw function of the project



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The ComplexFunction class

COMPLEXFUNCTION

ComplexFunction is an combination of Multiple Monoms and Polynom's functions with and Operation in between.

