Contents

Chapter 1

Classes

1.1 poly.ratfunc – rational function

- **Classes**
  - **RationalFunction**

A rational function is a ratio of two polynomials.

Please don't expect this module is useful. It just provides an acceptable container for polynomial division.

1.1.1 RationalFunction – rational function class

Initialize (Constructor)

RationalFunction(`numerator`: ***polynomial***, `denominator`: ***polynomial***=**1**)
→ ***RationalFunction***

Make a rational function with the given `numerator` and `denominator`. If the `numerator` is a `RationalFunction` instance and `denominator` is not given, then make a copy. If the `numerator` is a kind of polynomial, then make a rational function whose numerator is the given polynomial. Additionally, if `denominator` is also given, the denominator is set to its valus, otherwise the denominator is 1.

Attribute

numerator :
polynomial.

denominator :
polynomial.

Operations

operator	explanation
`A==B`	Return whether `A` and `B` are equal or not.
`str(A)`	Return readable string.
`repr(A)`	Return string representing `A`'s structure.

Methods

1.1.1.1 getRing – get rational function field

getRing(`self`) → **RationalFunctionField**

Return the rational function field to which the rational function belongs.

Bibliography