

Contents

1	Classes	2
1.1	poly.ratfunc – rational function	2
1.1.1	RationalFunction – rational function class	3
1.1.1.1	getRing – get rational function field	4

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 values, otherwise the denominator is 1.

Attributes

numerator :
 polynomial.

denominator :
 polynomial.

Operations

operator	explanation
<code>A==B</code>	Return whether A and B are equal or not.
<code>str(A)</code>	Return readable string.
<code>repr(A)</code>	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