complex.reciprocal

Copy fnreciprocal(self:T)->T;

Returns a the reciprocal of the complex number (i.e. 1/z).

Args

• self
• (T
•) - The input complex number.

Returns

The reciprocal of the complex number (a + bi) is given by: [\frac{1}{a + bi} = \frac{a}{a^2 + b^2} - \frac{b}{a^2 + b^2}i]

Examples

...

Copy useorion::numbers::complex_number::{complex_trait::ComplexTrait, complex64::complex64}; useorion::numbers::{FP64x64,FP64x64Impl,FixedTrait};

fnreciprocal_complex64_example()->complex64 { letz:complex64=ComplexTrait::new(FixedTrait::new(774763251095801167872,false));// 4 + 42i z.reciprocal() }

{real:{mag:41453357469010228, sign:false}, im:{mag:435260253424607397, sign:true}}//

Previous complex.real Next complex.sin

0.002247191011 - 0.0235955056 i

Last updated1 month ago