complex.exp

```

Copy fnexp(self:T)->T;

```

Returns the value of e raised to the power of the complex number.

Args

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

Returns

The natural exponent of the input complex number.

Examples

```

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

fnexp_complex64_example()->complex64 { letz:complex64=ComplexTrait::new(
FixedTrait::new(73786976294838206464,false), FixedTrait::new(77476325109580116787 2,false) );// 4 + 42i
ComplexTrait::exp(z) }

                {real:{mag:402848450095324460000, sign:true}, im:{mag:923082101320478400000,
                sign:true}}// -21.838458238788455-50.04038098170736 i

```

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Last updated1 month ago