complex.pow

```

Copy fnpow(self:T, b:T)->T;

```

Returns the result of raising the complex number to the power of another complex number.

Args

- self
- (T
-) - The input complex number.
- b
- (T
-) - The exponent complex number.
-

Returns

A complex number representing the result of z^w.

Examples

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

fnpow_2_complex64_example()->complex64 {
lettwo=ComplexTrait::new(FP64x64Impl::new(TWO,false),FP64x64Impl::new(0,false)); letz:complex64=ComplexTrait::new(
FixedTrait::new(73786976294838206464,false), FixedTrait::new(77476325109580116787 2,false) );// 4 + 42i z.pow(two) }

                    {real:{mag:32244908640844296224768, sign:true}, im:{mag:619810600876640934 2976,
                    sign:false}}// -1748 + 336 i

fnpow_w_complex64_example()->complex64 { letz:complex64=ComplexTrait::new(
FixedTrait::new(73786976294838206464,false), FixedTrait::new(77476325109580116787 2,false) );// 4 + 42i

letw:complex64=ComplexTrait::new( FixedTrait::new(36893488147419103232,false),
FixedTrait::new(18446744073709551616,false) );// 2 + i z.pow(w) }

                    {real:{mag:6881545343236111419203, sign:false}, im:{mag:2996539405459717736042,
                    sign:false}}// -373.0485407816205 + 162.4438823807959 i

```

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Last updated1 month ago