

complex.pow

...

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

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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 use orion::numbers::complex_number::complex_trait::ComplexTrait;
use orion::numbers::complex_number::complex64::{TWO, complex64}; use orion::numbers::
{FP64x64, FP64x64Impl, FixedTrait};
```

```
fn pow_2_complex64_example()->complex64 {
    let two = ComplexTrait::new(FP64x64Impl::new(TWO, false), FP64x64Impl::new(0, false)); let z:complex64 = ComplexTrait::new(
    FixedTrait::new(73786976294838206464, false), FixedTrait::new(774763251095801167872, false) );// 4 + 42i z.pow(two) }
```

```
    {real:{mag:32244908640844296224768, sign:true}, im:{mag:6198106008766409342976,
    sign:false}}// -1748 + 336 i
```

```
fn pow_w_complex64_example()->complex64 { let z:complex64 = ComplexTrait::new(
    FixedTrait::new(73786976294838206464, false), FixedTrait::new(774763251095801167872, false) );// 4 + 42i
```

```
let w: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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