

# complex.to\_polar

...

Copy `fnto_polar(self:T)->(F,F);`

...

Returns the polar coordinates (magnitude and argument) of the complex number.

Args

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

A tuple of two fixed point numbers representing the polar coordinates of the input number.

Examples

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

```
fnto_polar_complex64_example()->(FP64x64,FP64x64) { letz:complex64=ComplexTrait::new(
FixedTrait::new(73786976294838206464,false), FixedTrait::new(774763251095801167872,false) );// 4 + 42i z.to_polar() }

({mag:778268985067028086784, sign:false}, {mag:27224496882576083824, sign:false})//
mag : 42.190046219457976 + arg : 1.4758446204521403
```

...

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