complex.mag

```
Copy fnmag(self:T)->F;
```

Returns the magnitude of the complex number

Args

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

Returns

A fixed point number '', representing the magnitude of the complex number. 'mag(z) = sqrt(a^2 + b^2)'.

Examples

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

fnmag_complex64_example()->FP64x64{ letz:complex64=ComplexTrait::new( FixedTrait::new(73786976294838206464,false), FixedTrait::new(774763251095801167872,false) );// 4 + 42i z.mag() }

        {mag:0x2a30a6de7900000000, sign:false}// mag = 42.190046219457976
```

Last updated1 month ago