
Subject: Re: Euler formula with complex numbers
Posted by on Fri, 22 Feb 2002 18:06:09 GMT
[View Forum Message](#) <> [Reply to Message](#)

Look into the "IDL Online Help" in "What's New in IDL 5.5". Search for ATAN and look for the changes.

ATAN(z) doesn't return the phase anymore. It returns a complex.
Use ATAN(IMAGINARY(z), REAL_PART(z)) instead. I know it's awful, but...

Cheers.

"frederic" <raison@srl.caltech.edu> escreveu na mensagem
news:9f6b22a3.0202220953.2ceb4f73@posting.google.com...
I start from:

```
z=complex(3,2)
mag=abs(z)
phi=atan(z)
```

and I want to come back to z with mag and phi in this way:

```
z_prime=mag*exp(complex(0,1)*phi)
```

and I get z_prime=(0.715179, 3.02955) which is different from z.

What is wrong in the way I use IDL?

Thank you
