Subject: Re: Euler formula with complex numbers Posted by on Fri, 22 Feb 2002 18:06:09 GMT

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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