Subject: Re: cubic root

Posted by Lajos Foldy on Tue, 16 Apr 2013 15:19:00 GMT

View Forum Message <> Reply to Message

```
On Tuesday, April 16, 2013 5:08:12 PM UTC+2, fd_...@mail.com wrote:
> Hi all
>
>
> I have a question about cubic roots. The cubic roots of a negative number there exists. The
cubir root of -1 is -1, 0f -2 is -1.25 and so on why when I typed in IDL to calculate the cubic root of
a negative value it print out NaN which means Not a Number?
>
>
> E.g. I typed: (-1)^1.0/3 and it prints out NaN
>
>
>
  Is there any way to fixed it and don't get NaNs but get the actual value?
>
>
  Best Wishes
> Maria
(-1)^1.0/3 gives -0.333333 for me.
You have to specify that you want complex roots:
IDL> help, complex(-1.0)^{(1.0/3)}
<Expression> COMPLEX = (
                                   0.500000,
                                                0.866025)
(and note that ^ has higher precedence than /).
regards,
Lajos
```