Subject: Re: Math Question
Posted by Jean H. on Mon, 30 Oct 2006 20:35:57 GMT
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Jean H. wrote:
> Jo Klein wrote:
>
>>> Just out of curiosity, has anyone tried this on Matlab? I'd expect the
>>> same (or similar) results, but it'd be interesting if they weren't.
>>
>>
>> Matlab returns the real part of the argument if it's a real number you
>> put in:
>>>> -0.1^2.0
>>
>> ans =
>> -0.0100
>>
>>>> -0.1^2.01
>> ans =
>> -0.0098
>>
>>>> complex(-0.1,0)^2.01
>> ans =
>> 0.0098 + 0.0003i
>> Hmm - I don't know if this is more desirable than IDL's behaviour, I
>> think it's fair enough to warn people who try to do something like
>> that with their data. In Matlab, try and invert the second operation
>> ... this can't be good. Suppose there are arguments for both approaches.
>> Jo
>
>
> It depends indeed...
>
>>> -0.1^2.1
> ans =
> -0.0079
>
>>> (-0.1)^2.1
> ans =
> 0.0076 + 0.0025i
>
> You don't have to specify the complex() statement!
>
> Jean

for clarity:
>> a=-0.1

```
a =
   -0.1000

 >> a^2
ans =
    0.0100

 >> a^2.1
ans =
   0.0076 + 0.0025i
```
