Subject: Re: How to calculate the abscissa values for the given vertical values Posted by duxiyu@gmail.com on Mon, 05 Oct 2009 13:43:01 GMT

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Maybe my statement is not clear.

There is a function Y=F(X), and I want to calculate the correspondent abscissa values X for Y=0.

It means that there are serval intersection points between the line Y=F (X) and the horizonal line Y=0,

and I want to get the correspondent abscissa values of these points.

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On Oct 5, 3:10 pm, Wox <s...@nomail.com> wrote:
> On Mon, 5 Oct 2009 01:56:20 -0700 (PDT), "dux...@gmail.com"
>
> <dux...@gmail.com> wrote:
>> Hi, all.
>> I want to calculate the abscissa values for the given vertical values.
>> For example,
      x = findgen(1000)/1000*4*pi
      y = cos(x)
>> I want to get the abscissa values for y=0.
>> For this example, the results shoule be [!pi/2, 3*!pi/2, 5*!pi/2, 7*!
>> pi/21.
>> But how can I get it by IDL codes?
>> Best wishes,
>> jdu
> Just for this function:
> print,(indgen(ceil(max(x)/!pi))+1)*!pi/2
> What do you need exactly? You can always find the answer analytically
> no?
```