
Subject: Re: what am I doing wrong?

Posted by [babaka](#) on Fri, 17 Feb 1995 00:27:51 GMT

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This is a correcton to my last posting. The line

> WAVE> x=x+0.1 + 0.01 ; x goes from 0.01 to 40.01

should really be:

WAVE> x=x*0.1 + 0.01 ; x goes from 0.01 to 40.01

This was a typo. The problem still remains.

--

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Subject: Re: what am I doing wrong?

Posted by [babaka](#) on Fri, 17 Feb 1995 07:09:55 GMT

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Please ignore this topic, as I have realized what the problem was.

--

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Subject: Re: what am I doing wrong?

Posted by [jeyadev](#) on Fri, 17 Feb 1995 21:50:05 GMT

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In article <3i0pg0\$rf@atom.ansto.gov.au>,
Babak Ardekani <babaka@atom.ansto.gov.au> wrote:

> Dear Netters,

>

> I'm trying to plot the funtion:

>

> $f(x)=x*\log(x/w)-x$ ($x>0,w>0$)

```
>
> using PV~WAVE.
>
> I know that this function has a minimum at x=w.
>
> .....
>
> THE PROBLEM IS that when I plot this function in PV~WAVE
> the minimum appears at another point.
>
> I'm using the following set of commands:
>
> WAVE> w=5.0
> WAVE> x=INDGEN(400)
> WAVE> x=x+0.1 + 0.01 ; x goes from 0.01 to 40.01
> WAVE> fx=x*ALOG10(x/w)-x
      ^^
```

That's what is wrong. Use $\text{ALOG}(x/w)$ - the natural logarithm.

```
> WAVE> PLOT,x,fx
>
> I would appreciate if you would tell me what I'm doing
> wrong?
```
