
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 ALOG(x/w) - the natural logrithm.

> WAVE> PLOT,x,fx

>

> I would appreciate if you would tell me what I'm doing

> wrong?
