

# Re: Looking for Linear Stretch Constant for 1D Function

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*Source:* <http://sci.tech-archive.net/Archive/sci.math/2005-07/msg02248.html>

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- *From:* [MajorSetback@xxxxxxxxxxx](mailto:MajorSetback@xxxxxxxxxxx)
  - *Date:* 15 Jul 2005 08:22:28 -0700
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>  $g(k*t) - k*g'(0)*t - g(0) = f(t) - f'(0)*t - f(0)$   
> because  
>  $\int(0 \rightarrow t, f'(k*t)*dt) = (f(k*t) - f(0))/k$

That looks right. The problem, I have just noticed, is that k is the unknown quantity. How can we get  $g(k*t)$  if we do not know k? With a linear system  $g(k*t) - k*g'(0)*t = g(0) + f(t) - f'(0)*t - f(0)$  (with one equation for each t), there would be N equations and N+1 unknowns. Sorry if I'm missing something that should be obvious.

Thanks,  
Peter.

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- *Follow-Ups:*
  - ◆ [\*\*Re: Looking for Linear Stretch Constant for 1D Function\*\*](#)  
◇ *From:* jan hauben
- *References:*
  - ◆ [\*\*Re: Looking for Linear Stretch Constant for 1D Function\*\*](#)  
◇ *From:* MajorSetback
  - ◆ [\*\*Re: Looking for Linear Stretch Constant for 1D Function\*\*](#)  
◇ *From:* jan hauben
  - ◆ [\*\*Re: Looking for Linear Stretch Constant for 1D Function\*\*](#)  
◇ *From:* MajorSetback
  - ◆ [\*\*Re: Looking for Linear Stretch Constant for 1D Function\*\*](#)  
◇ *From:* jan hauben

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