

Re: \*\* says: Definition:  $\sum\{i \text{ in } \mathbb{N}\} i = 0$

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- *From:* WM <[mueckenh@xxxxxxxxxxxxxxxxxxxx](mailto:mueckenh@xxxxxxxxxxxxxxxxxxxx)>
  - *Date:* Wed, 11 Jul 2007 03:10:54 -0700
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On 10 Jul., 22:44, Virgil <[vir...@xxxxxxxxxxxxx](mailto:vir...@xxxxxxxxxxxxx)> wrote:

In article <1184096471.659205.71...@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>,

WM <[mueck...@xxxxxxxxxxxxxxxxxxxx](mailto:mueck...@xxxxxxxxxxxxxxxxxxxx)> wrote:

On 9 Jul., 21:56, Virgil <[vir...@xxxxxxxxxxxxx](mailto:vir...@xxxxxxxxxxxxx)> wrote:

Then according to WM,  
every derivative must  
always equal 1 at all  
points, and  $f(x) = |x|$  must  
have a derivative at  $x = 0$ ,  
and lots more.

That's nonsense.

Maybe, but it is WM's nonsense, not mine, to argue that  
functions must  
continuous at points outside their domains.

Continuous functions must be continuous.

No function is continuous at any point outside its domain of definition,  
however continuous it may be within that domain.

The derivative of  $|x|$  is not

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continuous but  $-1$  for negative  $x$  and  $+1$  for positive  $x$ . In contrast  $\sin x/x$  is continuous. Your example fails.

The expression  $\sin(x)/x$  is not even defined for  $x = 0$ , so that WM is claiming that it has a value when it does not have a value.

The function  $\sin(x)/x$  does not care a damn about your judgement whether it is defined or not at  $x = 0$ . It is defined there since 1696 when l'Hospital wrote his book.

Or is it better style to say that it does not give two hoots about your defining it?

Regards, WM

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