

Re: .999... ?= 1

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Eckard Blumschein wrote:

> *Lee Rudolph* wrote:

>

>>> *Well, in \mathbb{R} or \mathbb{Q} any exact number is a fictitious one in so far it
>>> just occupies an infinitesimal small range between its neighbours.*

>>

>> *To the extent that this statement is meaningful, it is false.*

>

> *From the perspective of a number per se your refusal is understandable.*

> *I did not clearly enough express that I meant the practical localization*

> *of the position corresponding to an exact number.*

I should define a macro for this objection of mine: "practical localization of the position" is not a mathematical concept. How do you _define_ it?

Don't you realize that you are constantly talking non-math?

[...]

>>>> *Nobody can give a concrete epsilon being small enough
>>>> as not to contain infinitely much rather than infinitely many
>>>> of different real numbers in between the mentioned two real numbers.*

>>

>> *Your "conclusion" ... is in no sense a logical consequence*

>

> *Originally, I referred to "The Ghost in the Machine" who wrote on June, 3:*

> *Fortunately, two real numbers are equal if one can show that*

> *they are closer than any given epsilon -- and that's easy enough*

> *to show in this case. (To claim otherwise invites deconstructing*

> *quite a bit of calculus.)*

>

> *I realized that a given epsilon has only two peculiarities. It definitely*

> *differs from zero, and it is a given, in other words, a fixed value.*

> *Maybe the sentence was meant differently. I did not intend to correct it.*

This clearly shows that you never really digested something like the ϵ - δ -definition of continuity. The definition said "_any_"

sci.math: Re: .999... ?= 1

given ϵ ", not a fixed one.

ciao

Lothar