

Re: Cantor and the binary tree

Source: <http://sci.tech--archive.net/Archive/sci.math/2005-07/msg02601.html>

- *From:* Virgil <ITSnetNOTcom#virgil@xxxxxxxxxxx>
 - *Date:* Sun, 17 Jul 2005 14:42:25 -0600
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In article <1121622980.914154.240560@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, mueckenh@xxxxxxxxxxxxxxxxxxx wrote:

>>> In the following list (with the replacement rule: replace 0 by 1) there
>>> is either no difference between numbers of the list and antidiagonal
>>> 0,111... or no convergence:
>>>
>>> 0.000...
>>> 0.1000...
>>> 0.11000...
>>> 0.111000...
>>> ...
>>>
>>> The antidiagonal $\sum_{n=1}^{\infty} b_n \cdot 10^{-n} = 1/9$ is the same as the
>>> limit of the list numbers. There is no difference. A difference can
>>> only be maintained when comparing a_{nn} and b_n , i.e., 0 and 1. But then
>>> there is no convergence.
>>
>> So you would propose that there is something contradictory about the
>> half-open interval $[0, 1/9)$ in the rationals, because it doesn't contain
>> $1/9$?
>
> No, I would propose that the limit $1/9$ is not on the antidiagonal if it
> is not in the list, because an equilateral triangle remains so also in
> the infinite limit.

AS usual WM proposes that we adopt idiocy as our standard.

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- *References:*
 - ◆ **Re: Cantor and the binary tree**
◇ *From:* mueckenh
 - ◆ **Re: Cantor and the binary tree**
◇ *From:* Dik T. Winter
 - ◆ **Re: Cantor and the binary tree**
◇ *From:* mueckenh
 - ◆ **Re: Cantor and the binary tree**

Re: Cantor and the binary tree

◇ *From:* Dik T. Winter

◆ ***Re: Cantor and the binary tree***

◇ *From:* mueckenh

◆ ***Re: Cantor and the binary tree***

◇ *From:* Martin Shobe

◆ ***Re: Cantor and the binary tree***

◇ *From:* mueckenh

◆ ***Re: Cantor and the binary tree***

◇ *From:* Virgil

◆ ***Re: Cantor and the binary tree***

◇ *From:* mueckenh

◆ ***Re: Cantor and the binary tree***

◇ *From:* cbrown

◆ ***Re: Cantor and the binary tree***

◇ *From:* mueckenh

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