

Re: Is continuum completely filled up?

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- *From:* "ooo" <farawfu@xxxxxxxx>
 - *Date:* Sun, 31 Dec 2006 13:09:21 +0900
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"Saurav" <saurav1b@xxxxxxxx> wrote in message
<news:1167459989.569012.274570@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

ooo wrote:

I am biginer in English and mathrmatics.
If real line is filled with points and each point is
distinguished,then each point has difference from every other points.
Therefore real line has void.

Thanks for advance.

First, I would advise you to use something considerable in the place of
nickname. "ooo" looks quite odd! Change it, please.

I am sorry. I tried to change it ,but still now dont go well.
I appreciate your sugestion.

I tell you, when I started to read mathematics of the real line, such
questions came into my mind; and I used that time to think about the
possible meanings of "next number". Why there is no gaps in real line
ruffled my mind. But as it has made the whole scenario clear, step by
step, through myriads of misconceptions and corrections, I am sure that
you also will understand what is meant by "gaps" and why completeness
is contrary to gaps.

I advise you to nurse your questions in mind; and ask others, as you
did, and if not satisfied with their answers, keep on reading....to
realize what the resl line looks like shall need years; many properties
of it, topological, measure theoretical, set theoretical ...are there,
without knowing which you can not possibly afford to a clear picture of
the real line.

I recommend a book : Hobson's book, "The thory of functions of a real
variable and the theory of Fourier's series". After you have had a
priliminary understanding of the structure of R, you should read this
book.

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Regards ozaki toshiaki