

Re: Extending the reals

Source: <http://sci.tech-archive.net/Archive/sci.math/2007-01/msg00906.html>

- *From:* "Ross A. Finlayson" <raf@xxxxxxxxxxxxxxxx>
 - *Date:* 5 Jan 2007 18:56:40 -0800
-

cbrown@xxxxxxxxxxxxxxxx wrote:

For the third time in this thread, "dense", "connected", and "continuous" have different meanings. And "gapless" has no particular meaning to me at all; unless it is supposed to mean "dense".

So is it a complete ordered field?

Otherwise there's not the arithmetic on it, defying its stated properties.

Sets are defined by their elements and \aleph in the generic extension bijects to \mathbb{R} . Transfinite cardinals is finitism.

The real numbers are definitely useful, and widely used. They're just not standard yet.

Ross

.