

# Re: Well Ordering the Reals

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*Source:* <http://sci.tech-archive.net/Archive/sci.math/2005-11/msg01354.html>

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- *From:* "Randy Poe" <[poespam-trap@xxxxxxxxxx](mailto:poespam-trap@xxxxxxxxxx)>
  - *Date:* 9 Nov 2005 11:42:05 -0800
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Tony Orlow wrote:

- > Randy Poe said:
- >> So if you declare something like "all sequences contain their limits",
- >> then you can prove it pretty easily. Since that will give a result
- >> which is both provably true and provably false, it might cause
- >> other people problems. But you've shown in the past you have
- >> no problem accepting such things.
- > Of course I do, and this is exactly what I was saying about axiomatic systems.
- > You can prove anything just by declaring it as an axiom, but that's just a
- > waste of time.

And leads, as here, to self-contradiction.

- > Axioms must be justified logically based on more fundamental
- > facts.

Nonsense.

- > But, you're not making much sense here.

No? Let me try again: we have a set of self-consistent axioms. You can't prove anything to be both true and false within that system.

You have several different new axioms YOU want to add, any one of which will introduce contradictions in the system that weren't there before.

Without your additions, we can prove certain things true and other things false, but nothing is both true and false.

With your additions, everything is provably true and false.

So there's no incentive for your additions. As you say, a waste of time.

– Randy

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- *Follow-Ups:*
  - ◆ **Re: Well Ordering the Reals**  
◇ *From:* Tony Orlow
  
- *References:*
  - ◆ **Re: Well Ordering the Reals**  
◇ *From:* Robert Low
  - ◆ **Re: Well Ordering the Reals**  
◇ *From:* Tony Orlow
  - ◆ **Re: Well Ordering the Reals**  
◇ *From:* Randy Poe
  - ◆ **Re: Well Ordering the Reals**  
◇ *From:* Tony Orlow
  
- Prev by Date: **Re: Well Ordering the Reals**
- Next by Date: **Re: Well Ordering the Reals**
- Previous by thread: **Re: Well Ordering the Reals**
- Next by thread: **Re: Well Ordering the Reals**
- Index(es):
  - ◆ **Date**
  - ◆ **Thread**