

Re: Orlow cardinality question

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-06/msg02907.html>

- *From:* stephen@xxxxxxxxxx
 - *Date:* Fri, 17 Jun 2005 17:02:28 +0000 (UTC)
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Tony Orlow (aeo6) <aeo6@xxxxxxxxxx> wrote:

> Virgil said:

>> In article <MPG.1d1b9b0c5dea7d6c989e09@xxxxxxxxxxxxxxxxxxxxxxxxxxxx>,

>> Tony Orlow (aeo6) <aeo6@xxxxxxxxxx> wrote:

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>>

>>>> Who says that number of elements is the one universal measure of

>>>> sets? That is something you just made up. You have to define

>>>> "number of elements" before the question even makes sense.

>>

>>> Which term do you not understand, "number" or "element"?

>>

>> How do you, TO, define "number of elements" of a set?

>> It is not that we do not understand in general, it is that we do not

>> know what your understanding about that phrase is.

> How about the integral of the density over the domain? Does that satisfy your

> need for mathematical definition?

Not even close. Consider the set of regular languages over the alphabet {a,b}.

What is the "integral of the density over the domain" of this set?

> There are several ways to state this, but

> "number of elements" is the most basic, and the way we intuitively think about

> sets. A set is a number of elements, members, units, or whatever.

I do not see how "number of elements" is in general related to

"integral of the density over the domain". When I think

of sets, I do not think of integrals or density.

Stephen

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- *Follow-Ups:*
 - ◆ *Re: Orlow cardinality question*
 - ◇ *From:* Dik T. Winter

- **References:**
 - ◆ **Re: Orlow cardinality question**
 - ◇ From: ae06
 - ◆ **Re: Orlow cardinality question**
 - ◇ From: stephen
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