

Re: Relative Cardinality

Source: <http://sci.tech-archive.net/Archive/sci.math/2005-07/msg01606.html>

- *From:* Virgil <ITSnetNOTcom#virgil@xxxxxxxxxxx>
 - *Date:* Mon, 11 Jul 2005 11:56:39 -0600
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In article <1121097816.912804.89780@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, mueckenh@xxxxxxxxxxxxxxxxxxx wrote:

> fiesh wrote:
>> On 2005-07-10, mueckenh@xxxxxxxxxxxxxxxxxxx <mueckenh@xxxxxxxxxxxxxxxxxxx>
>> wrote:
>>> I do not ask for insidious reasons or for bigotry. But it is quite
>>> obvious that only such real numbers can exist and obey the
>>> order-axioms, which have at least one completely well-defined n-adic
>>> representation.
>>
>> How funny, the BBP Formula actually gives you a way to explicitly
>> calculate any digit of pi in hexadecimal representation.
>>
> Look into their papers and find out how far they actually have come.
> Position 10^{10} , that is very good. But you must know that by far more
> 90 additional digits are required to reach position 10^{100} . Compared
> with that aim nearly nothing has been achieved.
>
>> Which, of course, contradicts your statement that pi "doesn't exist,"
>> unless you now argue that this criterion is not sufficient.
>
> I argued already the past that all 10^{100} digits are required to compare
> magnitudes but can't be stored in the whole universe. Both assertions
> contained in this last sentence are true.

The number of digits needed to compare two magnitudes depends only on the two magnitudes being compared, and, except for made up examples, rarely exceeds 20. Can WM find any occasion, other than a made up example, requiring even 100 digits?

No one knows how much can be stored in the whole universe since no one knows what that whole universe is.

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- **Follow-Ups:**
 - ◆ **Re: Relative Cardinality**
 - ◇ *From:* mueckenh

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 - ◆ **Re: Relative Cardinality**
 - ◇ *From:* mueckenh
 - ◆ **Re: Relative Cardinality**
 - ◇ *From:* Virgil
 - ◆ **Re: Relative Cardinality**
 - ◇ *From:* mueckenh
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 - ◇ *From:* Dik T. Winter
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 - ◇ *From:* Randy Poe
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 - ◇ *From:* Jiri Lebl
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