

Re: Cantor Confusion

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- *From:* Virgil <virgil@xxxxxxxxxxx>
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In article <1163073873.832639.10700@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>, mueckenh@xxxxxxxxxxxxxxxxxxx wrote:

MoeBlee schrieb:

As I said, I don't care about (3).

My mathematical notions include the fact that the diagonal of a matrix cannot have more elements than every line. If in your opinion this position is not valid in ZFC or in your logic, then we should stop here.

WM should certainly stop here, as his claim is just plain silly.

If the n th line contains at least n positions but is still finite then the diagonal will be at least as long as every finite line, thus will be longer than any finite line which is not a last line.

But if the lines correspond to the members of \mathbb{N} , there cannot be a last line.

Conclusion: The diagonal is longer than every finite line.

To argue otherwise is to ignore the facts.

since I would not have bothered to even post a proof about denumerable sequences and talk with you about it for so long if I accepted any condition that I can't use the axiom of infinity.

Re: Cantor Confusion

That is *not my condition* but it is the result which follows from the fact that the diagonal cannot be longer than every line.

It can be as long as every finite line, and longer than all but the longest, if there were one.

Thus if there is no longest or infinitely long line, the diagonal is longer than all lines.

If I have the choice either to accept the axiom of infinity with the condition that a diagonal can be longer than every line, or to drop both notions, then I choose the second.

A stupid choice, but each person has the right to go to hell in his own way.

If you can live with the contrary, then try to do it. I wish you nice dreams.

Not to worry, our dreams are better than yours.

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