

Re: Two results of set geometry

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[Yeah, I know there have already been other responses to this.]

stephen@xxxxxxxxxxx wrote:

I am saying that a square of finite dimensions is not infinitely tall.

Tony Orlow wrote:

You are being woefully unimaginative. Picture a square of infinite dimensions [sic], consisting of unit squares of uncountable number.

If it's infinite, it doesn't have any edges, so how do we know it's an infinite square, and not, say, an infinite triangle or pentagon? Or circle?

Now, zoom infinitely out, so that you can actually see the square, such that it appears to be one unit in size.

How is that done? If it's infinite in extent, there is no vantage point from which it doesn't look infinite in both directions. Are you saying it's not really infinitely wide?

But assuming that "zoom infinitely out" has meaning, wouldn't the square (which everyone else would call a "plane") look like a single point when viewed from an infinite distance?

At this point, the unit squares of which it consists have shrunk to infinitesimal elements, as the infinite

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square has shrunk to a finite size.

So now we can see edges of the square? How many points are on those edges? And what about the center of the infinite square?

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