

Re: how to list all of the real numbers

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 - *Date:* Thu, 23 Aug 2007 23:57:14 -0000
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Ross A. Finlayson wrote:

Then, there would be some consideration of the definition of distinct points, which I would call definitely distinct, and indefinitely distinct points.

The continuum of real numbers, where any numbers between zero and one are real numbers else they wouldn't be between zero and one, including the nilpotent infinitesimal iota and iota-sums and iota-multiples, such that infinitely many iota's in multiple equal exactly one, leads to reformulation of the infinitesimal analysis as infinitesimal analysis, where that is nonstandard and not necessarily Non-Standard. Infinity in numbers does actually exist. Then, where natural laws are expected to correspond to the behavior of mathematically defined entities, and furthermore be defined as mathematical entities, as in for example the universe containin itself and is infinite and construing physical objects as mathematical objects and funcitons between them as physical objects, eg force fields, the universe itself is an example of infinite set and powerset identical, the physical universe. So, in continuum analysis of physical objects, with the known incongruencies of a sort in the large and small (paradoxes as it were, effects), there should be considered that there are appreciable analytic effects in the meso-scale, observable reality, in basically the notion of the polydimensional point, and real numbers as beads on a string, structured at once as the complete ordered field.

Breath-taking.

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