

Re: .9999... = 1 proof

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From: Big Brother (*ministry.ofLove_at_eurasia.com*)

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The reason this thread goes on and on, I believe, is due to the fact that almost no undergraduates makes the connection between limit and supremum (or infimum), afterall that is what we really are talking about. Likewise, E.E.Escultura argues that the trichomy (or dichomy) axioms of the real numbers are wrong implying that if $x > G - \epsilon$: for some x : $g = \sup E$, then this does not follow from the counterexample that $x \leq G - \epsilon$ (as we have some other esoteric propositio(s) possible), which is rather ridiculous.

On 27 Dec 2004, J wrote:

$> 1/3 + 2/3 = 1$, $1/3 = .3333\dots$, $2/3 = .6666\dots$, $.3333\dots + .6666\dots =$
 $> .9999\dots$, therefore, $.9999\dots = 1$. *QED*