

Re: Punctuation

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- *From:* hagman <google@xxxxxxxxxxxxxxxx>
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On 31 Jul., 19:51, mstem...@xxxxxxxxxxxxxxxx (Michael Stemper) wrote:

How would you punctuate this?

$\forall \epsilon > 0 \exists \delta > 0 P(x, \epsilon, \delta)$

"For all epsilon greater than zero, there exists a delta greater than zero such that proposition."

Would the proper punctuation be the insertion of colons:

$\forall \epsilon > 0 : \exists \delta > 0 : P(x, \epsilon, \delta)$

Would it be grouping the quantifiers:

$(\forall \epsilon > 0)(\exists \delta > 0)P(x, \epsilon, \delta)$

Is there a recommended/preferred approach?

Your method of writing should be readable and/or properly defined and especially when using a crippled character repertoire as here in a newsgroup post, the colon method seems to be widely preferred.

In doubt one might fall back to unrestricted quantifiers and extensive use of parentheses, but readability would suffer a lot:

$\forall \epsilon (\epsilon > 0 \rightarrow \exists \delta (\delta > 0 \ \& \ P(x, \epsilon, \delta)))$

hagman

—
Michael F. Stemper
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