

Re: Punctuation

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- *From:* hagman <google@xxxxxxxxxxxxxxxx>
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On 31 Jul., 21:19, fernando revilla <frej0...@xxxxxxxxxxxxxxxx>
wrote:

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?

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—
Michael F. Stemper
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Being strict, that is, using the alphabet of symbols of
Predicate Calculus:

Variables: e,d,...
Individual constants: 0,...
Predicates: G(x): " x greater than 0 ",...
Well formed formulas: P,...
Connectives: ~, ->
Universal quantifier: A
Punctuation: (,) ,

Then, "For all epsilon greater than zero, there exists a
delta greater than zero such that P" could be written:

$((Ae)G(e) \rightarrow (\sim((Ad)(\sim(G(d) \rightarrow P))))$

No, this seems to read "If all epsilon are positive, then ..."

Fernando.