Re: Help in answering news story on refutation of fermat's last theorem

Source: http://sci.tech−archive.net/Archive/sci.math/2005−05/msg04316.html

- *From*: anzaurres1@xxxxxxxxxxx
- *Date*: 23 May 2005 16:47:11 −0700

Torkel Franzen wrote:
> "Mark Nudelman" <markn@xxxxxxxxxxxxxxxxxxxxx> writes:
>
> > If the statement 0=1 is an axiom, then the symbols 0, 1, and = cannot be
> > interpreted as they are in normal arithmetic.
>
> Sure they can. 0=1 simply becomes a false axiom.

What is a false axiom?

> > Symbols can't
> > be interpreted unless you know how they're used in the axiomatic system
> > which they're part of.
>
> So what axiomatic system are the symbols in your statement above a
> part of?

You can pick any axiomatic system you want. In some the statement 0=1 will be true. In others − false.

As the previous poster told you, take the usual axioms of integers, including inductive ordering, and let the symbol "=" denote what we usually denote as "<". Then "0=1" is a correct statement.

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- ***Follow−Ups***:
  - ♦ ***Re: Help in answering news story on refutation of fermat's last theorem***
    - ◊ *From:* Torkel Franzen
- ***References***:
  - ♦ ***Re: Help in answering news story on refutation of fermat's last theorem***

- ◊ *From:* Stephen J. Herschkorn
- ♦ ***Re: Help in answering news story on refutation of fermat's last theorem***
  - ◊ *From:* Mark Nudelman
- ♦ ***Re: Help in answering news story on refutation of fermat's last theorem***
  - ◊ *From:* Torkel Franzen
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  - ◊ *From:* Torkel Franzen

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