

Re: My investigations into Godels Incompleteness Theorem

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John Jones says...

Daryl McCullough wrote:

Godel says that a sentence has a string (which is arguable).

No, Godel doesn't talk about strings. I'm the one saying that, and no, it's really not arguable.

Really, he should not then go on to use the sense (theorem) of that sentence as if it was the sentence itself.

He doesn't do that. You are deeply confused about this.

Let's try something much simpler. Consider the sentence of arithmetic

$0+0=0$

Under the usual interpretation of the symbols "0", "+", and "=", that is a true sentence, and in fact, it is a theorem of Peano Arithmetic. Do you agree?

Now, the above sentence corresponds to a string that is 5 characters in length, and whose first character is "0", whose second character is "+", whose third character is "0", whose fourth character is "=" and whose fifth character is "0". Do you agree?

Okay, then here is an example of a property of strings:

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is a string that is 5 characters in length, and whose first character is "0", whose second character is "+", whose third character is "0", whose fourth character is "=" and whose fifth character is "0"

Let's call that property "P".

Here is a fact about property P:

For any sentence S in the language of arithmetic, if the string corresponding to S has property P, then S is a theorem.

Do you agree? If not, why not?

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