Re: HOW MANY DIGITS OF PI HAVE PROPERTY X ?

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From: Will Twentyman (*wtwentyman_at_read.my.sig*)
Date: 01/12/05

Date: Wed, 12 Jan 2005 15:44:35 −0500

|−|erc wrote:

> "Will Twentyman" <wtwentyman@read.my.sig> wrote in
>
>>|−|erc wrote:
>>
>>
>>>Pi = <314159.....>
>>> |<−−−−−−how many digits−−−−−−−−−−>|
>>>
>>>
>>>Let property X = the digit, and every preceding digit up to that digit occur in order in the right spot on
>>> (a member of) list Y
>>>
>>>Let Y = {
>>><333333333..>
>>><300000000..>
>>><399999999..>
>>><314314314..>
>>>..
>>>}
>>>Y has infinite members.
>>>The above is just a sample.
>>>Y is computed by UTM(row, col) mod 10
>>>Y includes all computable numbers for some numeric representation
>>>
>>>
>>>The answer should be a quantity
>>> |<−−−−−−how many digits−−−−−−−−−−>|
>>>
>>>that is not related, dependant, or refers to Y.
>>
>>The answer should be a quantity only if you allow infinity as a quantity.
>
> You're the one who thinks oo e R

No, I don't. I think oo is in the extended reals, which is R union
{−oo, oo}.

> there is no problems with infinity being a quantity. LOOK HOW BIG THE UNIVERSE IS!

Last I heard, finite.

> the number of digits = oo
>
> fine answer to me!
>
> oo is a measure of quantity, an actual reference to the amount of digits in question,
>
> as compared to 10 people who answered, "any finite amount referenced in the target lists elements"

Which is probably equivalent to what you were after, but states it more
precisely.

>>>Example :
>>>Pi = <314159.....>
>>> |<−−−−−−how many digits−−−−−−−−−−>|
>>>
>>>Let Y = {
>>><31400000..>
>>><31411111..>
>>><31322222..>
>>><31433333..>
>>>}
>>>
>>>Answer : 3
>>>
>>
>
>
> The key to practicing mathematics is to answer the question in the form it was asked.
>
> How many X of Y have Z?
>
> This should always be a quantity. If you think the solution is "for every digit, considering this,
> dependeing on that..." that's not the solution, your response answer though correct is not reduced.

When a question is ambiguously phrased, people will tend to give a more
verbose answer in order to make sure their answer is not
misinterpretted. Especially when dealing with math, it seems like a
"simple" question requires a complicated answer and a "complicated"
question can have a very simple answer. The reason is that the simple
question requires the answerer to fill in all the qualifications,
provisos, etc.

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