

Re: Contradiction-free mathematics (The new nonstandard analysis)

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>When you LIST DOWN the rules for finding those digits they will turn out to be finite. In >other

The rule for the decimal expansion of the integer n: the digits before the decimal point are exactly the digits of n in base 10. After the decimal point, every digit is 0.

See? For any integer n, there is a rule that makes a decimal for n. Thus there are infinitely many decimals, since there is at least one decimal for each natural number.

Each particular rule is indeed finite, but there are infinitely many rules.

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