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Abstracts of Short Communications and Posters

Section:

1. Logic

1991 MS Classification: 3

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A certain proposition unprovable in number-theoretic formal system

Procedure: If a positive integer is odd, the add 1 to it. If a positive integer is even, the divide it by 2. Proposition: every positive integer is transformed into 1 by applying the above procedure finite times. This trivial proposition is unprovable in the number-theoretic formal system having $'$, $+$, $\cdot$ and some oter functions. The reason will be shown. Then some related matters would also be presented.