

1/3 proof of Collatz problem

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Abstract

I show the 3rd possibility of Collatz problem.

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definition(Collatz problem)

Take some natural number, if this number is odd, times 3 and plus 1. If this number is even divide by 2. Repeat this process, I get Collatz sequence. The Collatz problem is that this Collatz sequence eventually goes to 1.

Statement1

Collatz sequence does not go to infinity for all natural numbers, or does not make cycle pattern, then all Collatz sequence goes to 1.