Collatz Conjecture Proof Attempt

By: The illusion of the Fernando Rosas "self"

if odd, $T(j) = \frac{3j+1}{2}$

if even, $T(j) = \frac{j}{2}$

call the sequence of iterates $(j, T^1(j), T^2(j), T^3(j), T^k(j) \ \ldots)$ *the trajectory of j*

The Trajectory of j has three possible behaviors for all integers $j > 0$
Convergent trajectory, Divergent trajectory to infinity, and non-trivial cyclic trajectory
We will prove that the divergent and cyclic trajectories are impossible by contradiction.

Impossibility of divergence proof with only odds

Sub-proof of case with no division by 2
Suppose there exists a sequence of iterates that has no even element and diverges to infinity, then we can easily produce the results of such sequence

j

$\frac{3j+1}{2} = j + \frac{1}{2}(j+1) = \frac{3^1}{2^1}(j+1) - 1$

$\frac{9j+5}{4} = 2j + 1 + \frac{1}{4}(j+1) = \frac{3^2}{2^2}(j+1) - 1$

$\frac{27j+19}{8} = 3j + 2 + \frac{3}{8}(j+1) = \frac{3^3}{2^3}(j+1) - 1$

$\frac{81j+65}{16} = 5j + 4 + \frac{5}{16}(j+1) = \frac{3^4}{2^4}(j+1) - 1$

$\frac{243j+211}{32} = 7j + 6 + \frac{15}{32}(j+1) = \frac{3^5}{2^5}(j+1) - 1$

…

The $T^k(j)$ term is equivalent to $j\frac{3^k}{2^k} + \frac{3^k - 2^k}{2^k} = \frac{3^k}{2^k}(j+1) - 1 = odd$
Consequently,
$j + 1$ must be a factor of 2^{k+1}, which implies $j + 1 \geq 2^{k+1}$
j cannot be a specific odd integer since $\lim_{k \to \infty} 2^{k+1} \to \infty$
Therefore, $T(j)$ with only odd elements cannot exist.

Conjecture And Proof

Imre Lakatos

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