

## Collatz Conjecture Proof Attempt

By: The illusion of the Fernando Rosas "self"

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

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

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

$j$

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

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

$$\frac{27j+19}{8} = 3j + 2 + \frac{1}{4}(j + 1) = \frac{3^3}{2^3}(j + 1) - 1$$

$$\frac{81j+65}{16} = 5j + 4 + \frac{1}{8}(j + 1) = \frac{3^4}{2^4}(j + 1) - 1$$

$$\frac{243j+211}{32} = 7j + 6 + \frac{1}{16}(j + 1) = \frac{3^5}{2^5}(j + 1) - 1$$

...

The  $T^k(j)$  term is equivalent to  $j \frac{3^k}{2^k} + \frac{3^k - 2^k}{2^k} = \frac{3^k}{2^k}(j + 1) - 1 = \text{odd}$

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  $\lim_{k \rightarrow \infty} 2^{k+1} \rightarrow \infty$

Therefore,  $T(j)$  with only odd elements cannot exist.

# Conjecture And Proof

**Dominic D. Joyce**



**Conjecture And Proof:**

The book delves into Conjecture And Proof. Conjecture And Proof is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Conjecture And Proof, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Conjecture And Proof
  - Chapter 2: Essential Elements of Conjecture And Proof
  - Chapter 3: Conjecture And Proof in Everyday Life
  - Chapter 4: Conjecture And Proof in Specific Contexts
  - Chapter 5: Conclusion
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5. In chapter 4, the author will scrutinize the relevance of Conjecture And Proof in specific contexts. The fourth chapter will explore how Conjecture And Proof is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Conjecture And Proof. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Conjecture And Proof.

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