

# The void of the critical line

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February 26, 2014

## Abstract

We just use a certain algorithmic procedure to eliminate the critical line from the complex plane. As the result, we obtain a disproof of the Riemann hypothesis in a simple manner.

## 1 Introduction

In this paper, we use an algorithm for eliminating the critical line. Thereby, we can disprove the Riemann hypothesis.

## 2 The result

Let  $\mathfrak{p}$  denote the critical line. For disproving the Riemann hypothesis, we should use the following algorithm:

1. Construct the critical line  $\mathfrak{p}$  in the complex plane  $\mathbb{C}$ .
2. Generate the infinite number of holes on the critical line  $\mathfrak{p}$ .
3. Replace the rest of points on the critical line by the continuum of holes.

Then by the algorithm, we obtain that the critical line  $\mathfrak{p}$  is replaced by an empty set in  $\mathbb{C}$ . Thus, we conclude that  $\mathfrak{p} = \emptyset$ . Because the critical line is free from any element, then the critical line is free from zeros too. Hence, the Riemann hypothesis is false.