IATFX 本科数学笔记

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2025年7月27日

1 Introduction

Welcome to the template! Let's add a definition.

定义 1.1: Limit of a function

If, for every $\epsilon > 0$ there exists some $\delta > 0$ such $0 < |x - a| < \delta$ implies $|f(x) - L| < \epsilon$ then we say that the function f has a limit of L at a and we write

$$\lim_{x \to a} f(x) = L.$$

And let's also follow it up with a theorem:

定理 1.1: Fermat's Last Theorem

The equation

$$a^n + b^n = c^n$$

has no integer solutions for every integer n > 2.

证明. I have discovered a truly marvellous proof of this, which this margin is too narrow to contain. \Box

But this immediately implies the following corollary:

推论 1.1. Riemann's Every non-trivial zero of the Riemann ζ function has real part one-half.

Which we can demonstrate with an example:

例题 1.1: Poincare

Consider a simply connected, closed 3-manifold. Notice that it is homeomorphic to the 3-sphere!

引理 1.1. This is a lemma.

命题 1.1. This is a proposition.

注记. This is a note.