The Unreasonable Societal Implications of Theoretical Mathematics

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Abstract—

I. INTRODUCTION

Theoretical mathematics is sort of a controversial subject throughout time with big implications on the society. From the start of dawm, where whole num egyptians utilized geometry to construct perfect square pyramides and astrology, it is now clear

II. MATHEMATICS FOR STIMULATING INTELLECTUAL MIND

- For some it may be because we humans tend to like puzzles and games. Even my grandmas enjoy playing Scrabble and sudoko and more. But while this is essentially basic structures and have basic applications, is this evolved from human creativity.

III. MATHEMATICS AS AN ART FORM

Beauty of mathematics, but why does this

- The beautiful symmetries that happens in theoretical mathematics.
  - Unexpected connections between mathematical fields.
  - Unexpected simple results, arriving from a complex theory
- Is it egoistic that theoretical mathematicians train for years and years, just to construct some weird symmetry only they find interesting.
  - Only appreciated by the ones with enough patients to learn the hidden rules
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IV. MATHEMATICS AS AN APPLICATION

- Time lag before the applications
  - The history of how abstract algebra was the only branch where "pure" branch with no applications. But then we found extreme applications in cryptography.