

# Problem 4: The Disaster Zone

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## 1 Introduction

My name is John Q. Klutz, and I make mistakes in pretty much everything I do, except my mathematics is always perfect. For example, I noticed that  $2+3=5$ , which inspired me to observe that:

- $1^{10^{10^{10}}} + 4 = 5$ ,
- $3 + 2 = 5$ ,
- $2^2 + 1 = 5$ , and shockingly,
- $2 + 3^{10} \cdot 109 = 23^5$ .

## 2 Examples

As you can see, I'm pretty much the most brilliant maths guy you'll ever meet. Here are some more examples of my greaatest work.

**Theorem 1 (Klutz)** *If  $E$  is an elliptic curve over  $\mathbf{Q}$ , then*

$$\text{ord}_{s=1} L(E, s) = \text{rank}(E(\mathbf{Q})).$$

**Theorem 2 (Klutz)** *The following equation has no solutions in positive integers for any  $n > 2$ :*

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

(I figured out Fermat's short version.)

**Theorem 3 (Klutz)**

$$P \neq NP$$