Hello World!

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Introduction

- 1. Let's begin with a formula $e^{i\pi} + 1 = 0$.
- 2. A more complicated formula

$$e = \lim_{n \to \infty} \left(1 + \frac{1}{n}\right)^n = \lim_{n \to \infty} \frac{n}{sqrt[n]n!}$$

3. Polynomial Runtimes The are favorable r.t's ;

4. Inefficient / Bad Runtimes (Opposite Poly)

$$O(n^2)$$

5. Linear Time

6. Constant Time

7. Logarithmic, Quasi(sub)-Logarithmic Time

$$O(log_n)$$

8. Another formula

$$e = \sum_{n=0}^{\infty} \frac{1}{n!}.$$

9. We can also use continued fractions

$$e = 2 + \frac{1}{1 + \frac{1}{2 + \frac{2}{2}}}$$

More Math and Code Tutorial

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