

Hello World

someone

date

## Introduction

1. let's try a **formula**  $e^{i\pi} + 1 = 0$

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

2. but we can do *another*:

$$e = \sum_{n=0}^{\infty} \frac{1}{n!} \quad (2)$$

3. We can also use a **continued fraction**

$$e = 2 + \frac{1}{1 + \frac{1}{2 + \frac{1}{3 + \frac{1}{4 + \dots}}}}$$

## More Formulas

$$\int_a^b f(x) dx$$

$$\iiint f(x, y, z) dx dy dz$$

$$\vec{v} = \langle v_1, v_2, v_3 \rangle$$

$$\vec{v} \cdot \vec{w}$$

$$\begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$$

equation 2 was very cool  
equation 1 was very cool