

Hello YouTube!

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1 Definitions of e

1. As a limit:

$$e = \lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n$$

2. As a sum:

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

3. As a continued fraction:

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