Constants

Pi

$\pi \approx 3.14159265358979\ldots$

$$\pi = \int_{-\infty}^{+\infty} \frac{1}{x^2+1}\,dx$$

$$\frac{\pi^2}{6} = \sum_{k=1}^{\infty} \frac{1}{k^2}$$

e

$e \approx 2.71828182845905\ldots$

Golden Mean

$$\frac{1}{\phi} = 1 - \phi$$

$$\phi = \frac{1+\sqrt{5}}{2}$$

$$\begin{aligned}\phi &= \lim_{n\to\infty} \frac{u_n}{u_{n-1}} \\ &= \lim \left\{ \frac{1}{1}, \frac{2}{1}, \frac{3}{2}, \frac{5}{3}, \frac{8}{5}, \frac{13}{8}, \ldots \right\}\end{aligned}$$

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