Komplexe Zahlen

Allgemeines e-Funktion f.a. x ϵ ℝ :

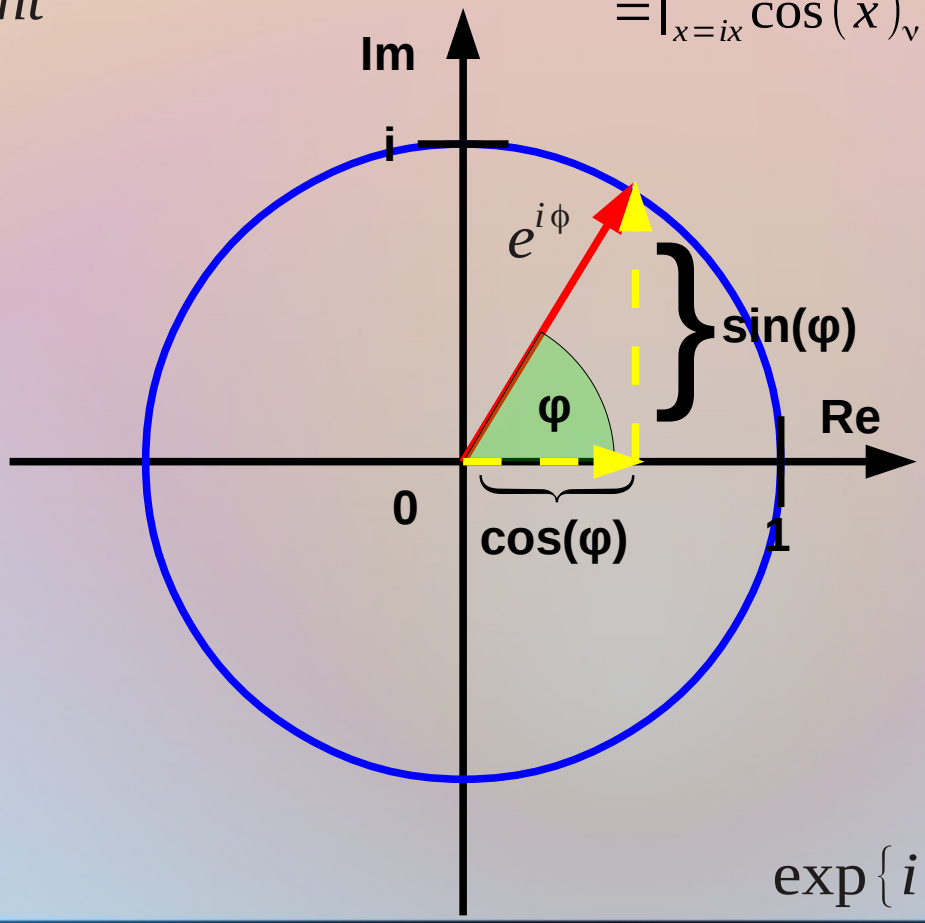
$$e^x := \sum_{\nu=0}^{\infty} \frac{1}{\nu!} x^\nu$$

$$= 1 + x + \frac{1}{2} x^2 + \frac{1}{6} x^3 + \frac{1}{24} x^4 + \frac{1}{120} x^5 + \ldots$$

$$= |_{x=ix} \cos(x)_{\nu=0,2,4,\ldots} + i \sin(x)_{\nu=1,3,5,\ldots}$$

$$Grad = Radiant$$

$$360^\circ = 2\pi$$



$$i^2 := -1$$

$$\exp\{i\phi\} = \cos(\phi) + i \sin(\phi)$$