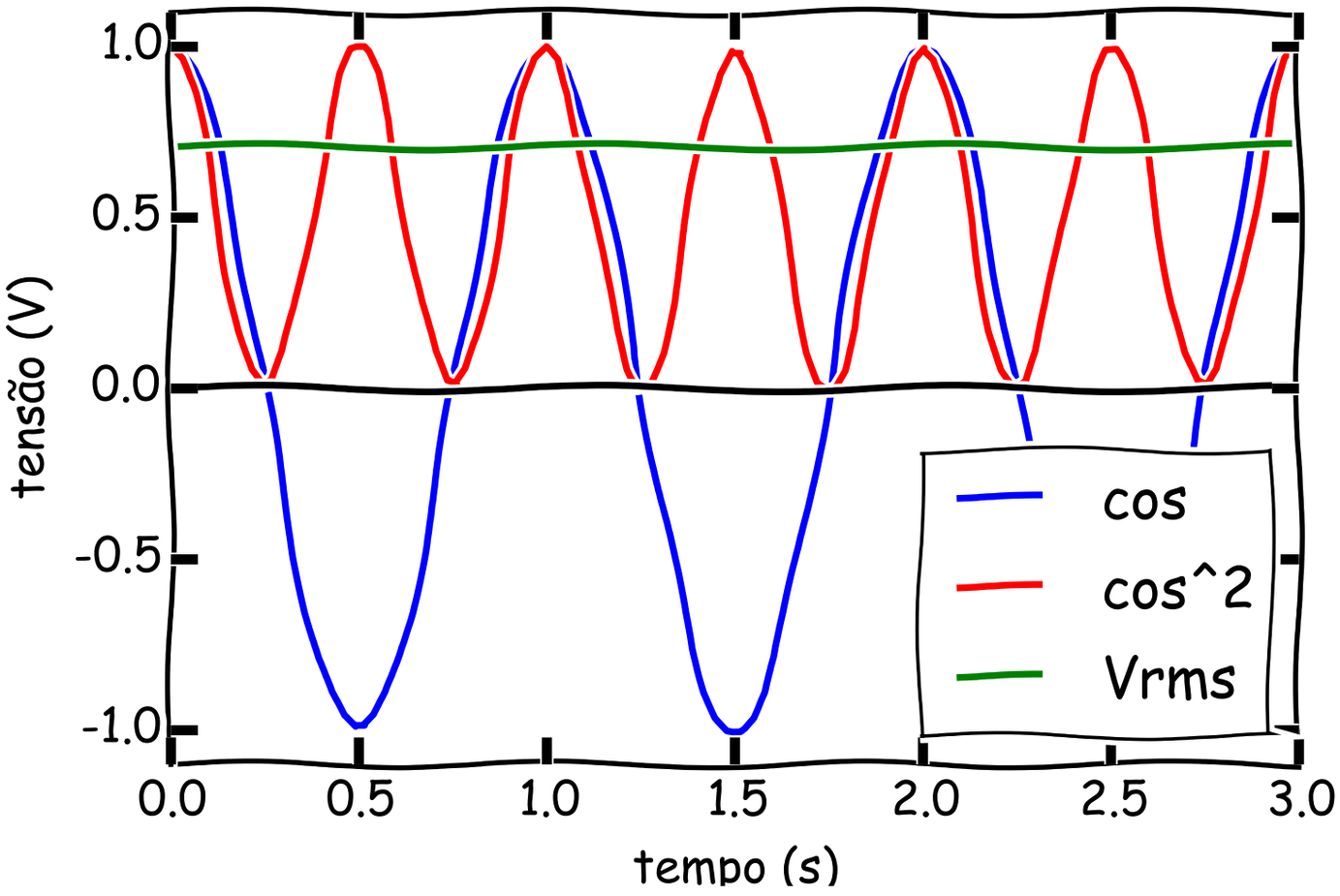
Valor RMS



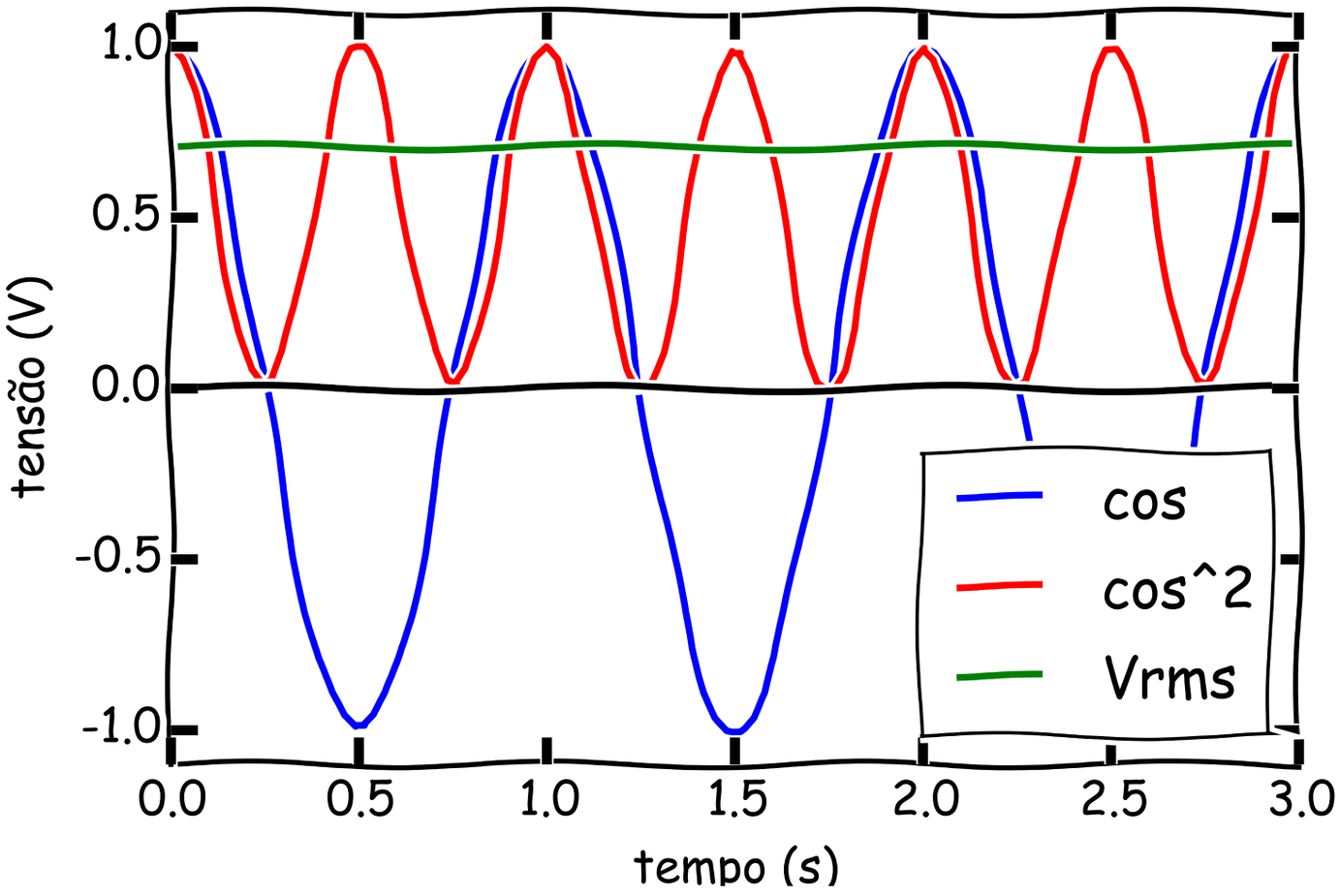
Valor RMS:

$$\epsilon_{rms} = \sqrt{\frac{1}{T}\int_0^T \epsilon(t)^2\, dt}$$

$$\epsilon_{rms} = \frac{\epsilon_0}{\sqrt{2}}$$

$$\epsilon_1(t) = \epsilon_0 \cos(\omega t) \qquad \begin{cases} \epsilon_0 = 1V \\ \omega = 2\pi f \\ f = 1 \text{ Hz} \end{cases}$$

Valor RMS



Valor RMS:

$$\epsilon_{rms} = \sqrt{\frac{1}{T}\int_0^T \epsilon(t)^2\, dt}$$

$$\epsilon_{rms} = \frac{\epsilon_0}{\sqrt{2}}$$

$$\epsilon_1(t) = \epsilon_0 \cos(\omega t) \qquad \begin{cases} \epsilon_0 = 1V \\ \omega = 2\pi f \\ f = 1 \text{ Hz} \end{cases}$$

Valor RMS em campinas (127V)

$$\epsilon_0 = \sqrt{2} \times \epsilon_{rms} \approx 179 \text{ V}$$

$$\epsilon_{pp} = 2\epsilon_0 \approx 360 \text{ V}$$