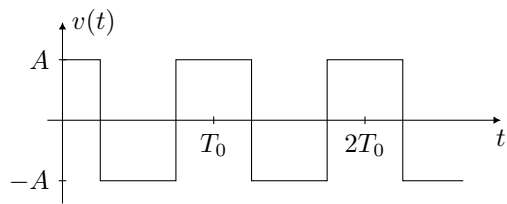
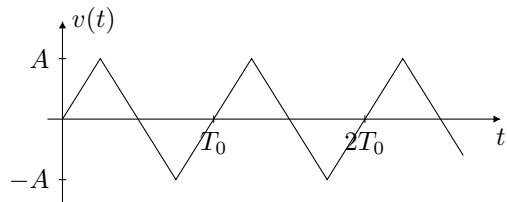


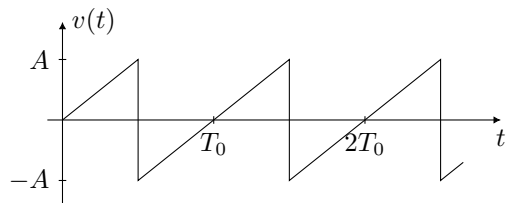
$$v(t) = A \cos(\omega_0 t)$$



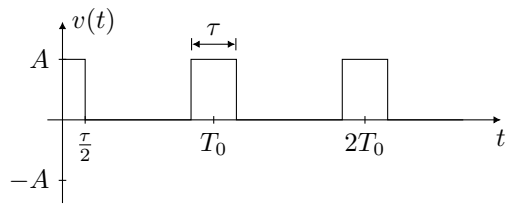
$$v(t) = \frac{4A}{\pi} \left[\cos(\omega_0 t) - \frac{1}{3} \cos(3\omega_0 t) + \dots \right]$$



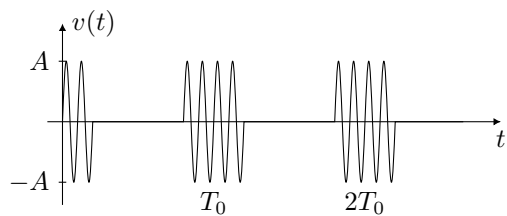
$$v(t) = \frac{8A}{\pi^2} \left[\sin(\omega_0 t) - \frac{1}{3^2} \sin(3\omega_0 t) + \dots \right]$$



$$v(t) = \frac{2A}{\pi} \left[\sin(\omega_0 t) - \frac{1}{2} \sin(2\omega_0 t) + \dots \right]$$



$$v(t) = \frac{A\tau}{T_0} + \frac{2A\tau}{T_0} \left[\text{sinc}\left(\frac{\tau}{T_0}\right) \cos(\omega_0 t) + \text{sinc}\left(\frac{2\tau}{T_0}\right) \cos(2\omega_0 t) + \dots \right]$$



$$v(t) = \frac{16A}{\pi} \left[-\frac{1}{63} \sin(\omega_0 t) + \frac{1}{55} \sin(3\omega_0 t) + \right. \\ \left. -\frac{1}{39} \sin(5\omega_0 t) + \frac{1}{15} \sin(7\omega_0 t) + \right. \\ \left. -\frac{\pi}{32} \sin(8\omega_0 t) + \frac{1}{17} \sin(9\omega_0 t) + \right. \\ \left. -\frac{1}{57} \sin(11\omega_0 t) + \frac{1}{105} \sin(13\omega_0 t) + \right. \\ \left. -\frac{1}{161} \sin(15\omega_0 t) + \dots \right]$$

Figura 2: Sinais periódicos com suas respectivas representações em série de Fourier.