06 4º simal $\int x(t) dt = \int x(t) dt = t|_{18}$ $x(t)\cos(hant)dt$ v=2 (senhant) 1/8 2611 sen (hr) + sen (hr) 1. cos(almt) dt -> Como o simal possui simetria por, bk=0; bk=2 | x(t) sen (k2nt)dt (= 2 [-cos(k2nt)] | 1/8 1. sen(k2nt)dt = 1 [-cos(kn) + cos(-kn)] = 0 Aplicando em x(t): t)=1+2 [2 sem(km) cos(k2nt)] $x(t)=\frac{1}{4}+\frac{1}{\pi}\cos(2\pi t)+\frac{1}{\pi}\cos(4\pi t)$ ~ 2 termos $x(t)=1+\sqrt{2}\cos(2\pi t)+1\cos(4\pi t)+\sqrt{2}\cos(6\pi t)$ = 3 termos $x(t) = \frac{1}{4} + \frac{\sqrt{2} \cos(2\pi t) + 1 \cos(4\pi t) + \sqrt{2} \cos(6\pi t) - \sqrt{2} \cos(10\pi t)}{\pi}$ + 5 termos $x(t) = 1 + \sqrt{2} \cos(2\pi t) + 1 \cos(4\pi t) + \sqrt{2} \cos(6\pi t) - \sqrt{2} \cos(10\pi t)$ 1 cos(12nt)-12 cos(14nt) + 12 cos(18nt) + 1 cos(20nt)

DIO tecmos

FORON: