Soluções do 1º teste de MCE

I

a)
$$3 t^2 i + 5 t^2 j$$

b)
$$y=5/3 x$$

c) $a_t = (136)^{1/2} \text{ m/s}^2$; $a_n = 0$

II

III

a)
$$0.6 \text{ Kg m}^2/\text{s}$$

b)
$$\omega = 0.133 \text{ rad/s}$$
; $v_{CM} = 0.133 \text{ m/s}$

IV

a)
$$x(t)=1/6 \text{ sen}(6t+\pi)$$

b)
$$x(t)=1,57\cos(7t+0.82)$$