RA: 19.02466-5  $\sum F_{v=0}$  + Va + Vb - Pa = 0  $M(x) = M_0(x-L)^{\circ}$ Pa=Va + Vb Vd = Pa - Vb /VL VI = Pa - 5 Pa EMA=O PO Va= - 1 Pa -Motpa(a) + Wb. 20  $V_{b} = \frac{-s P_{a}^{2}}{2.2a} = \frac{s P_{a}}{4}$  $M(x) = -\frac{p_{0x}}{4} < x > -\frac{p}{2} < x > 2 + \frac{p}{2} < x - 6 > 2 + 12p_{0} < x - a > 0$ D7) (ν)= ) d (ν)= [- M(x) dx + C]  $\begin{aligned}
&= \frac{1}{ET} \int_{-M(x)} dy + P_1 = \frac{1}{ET} \int_{0}^{ET} \int_{0}^{ET} \left( \frac{1}{8} P_{\alpha}(x)^2 + \frac{D}{6} (x)^3 - \frac$ Y(x) = 1 por <x>3 + P(x) 4 - P < x-0>4 - pot <x-0>2 + C x + C 2  $\frac{1}{100} = 0 \qquad \frac{1}{100} = 0$   $\frac{1}{100} = =$ I (8pa4 + 16Pa4 - 24 - 24pa4 + 20 G) = 0  $C_1 = \frac{Pa^4}{24.2a} = \frac{Pa^3}{48} - D C_1 = \frac{Pa^3}{48}$ 

Questão 1

Iga EK F. Kubota

Iga Elki F. Kubata RA: 19.02466-5

$$P(x) = \frac{1}{eT} \left( \frac{P_{\alpha} \langle x \rangle^{2} + P(x)^{3} - P(x-\alpha)^{3} - 2P_{\alpha}^{2} \langle x - \alpha \rangle^{3} + \frac{P_{\alpha}^{3}}{48}}{8} \right)$$

$$\frac{d}{(x)} = \frac{1}{ET} \left( \frac{p_{\alpha}}{24}, (x) + \frac{p}{24} (x) + \frac{p}{24} (x) - \frac{p}{24} (x - \alpha)^{4} - \frac{p^{2}}{24} (x - \alpha)^{2} + \frac{p_{\alpha}^{3} x}{4x} \right)$$

C-)

$$\begin{array}{ll} 2 - \frac{1}{14} = \frac{1}{12} \left( \frac{p_0^3}{48} \right) \\ = \frac{1}{210.10^3 \cdot 430.10^4} \left( \frac{50.1500^3}{48} \right) = \frac{1}{80300.10^7} \left( \frac{3.875,000.000.50}{48} \right) \\ = \frac{337.51.50}{3000.000} = \frac{337.51.50}{3000.000} \end{array}$$

of a property of the second

$$J - ) Y_{c} = \frac{1}{e^{\pm}} p_{a} y \left( \frac{1}{2} y + \frac{1}{2} y + \frac{1}{4} y \right)$$

$$= \frac{1}{e^{\pm}} \left( \frac{5 p_{a} y}{48} \right) = \frac{1}{210.10^{3}} \cdot \frac{30.10^{4}}{430.10^{4}} \cdot \frac{5.50.1500}{48} y$$

$$= \frac{1}{90300.16^{3}} \left( \frac{5.0625.16^{2} \cdot 50.5}{48} \right)$$

Questão 2

lgon Elk: F. Kubate Ra: 19.02466-5

$$= 0 + \frac{500.16^{3}.600}{77.16^{3}.\pi(D1)} + \frac{800.16^{3}.400}{77.16^{3}.\frac{\pi}{32}(D1)}$$

d-) CB:

$$T_{\text{mox}} = 800 \cdot 10^3 \, d_{12} \leq 600$$