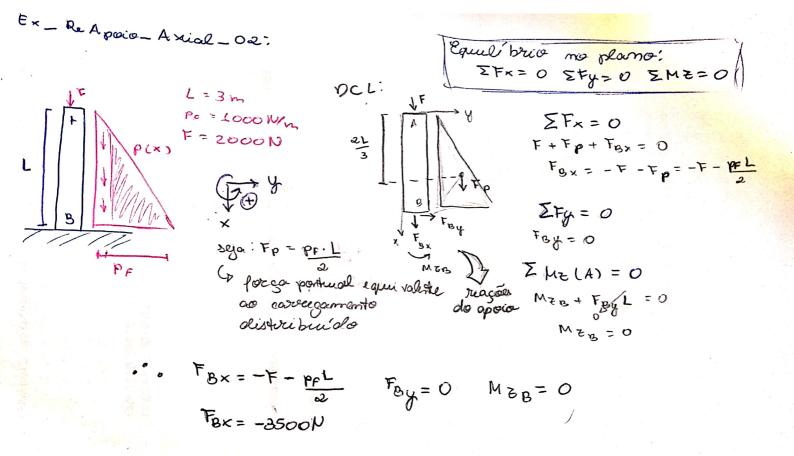
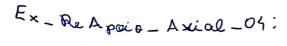
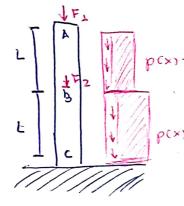
Lista de Expecícios - 1 Leticia Levin Des 201438 Ex_ReApoio_Axial_OL: F1+ FBx + Fp = 0 seja: Fo = pexsel FBx = - F1 - Fp = - F1 - port Fp= poal IFy = 0 To porça particial FBy = 0 equivolente as mações do distribuído apoio ZM3 (A) =0 FBX = - FI - 802L FBY = 0 M &B= 0 Ex=-28000N







L=2m PO= SOOON/m F1=8000N F2=16000N

x Gory

Ligam Fp. « Fp. porgos pontuous tous quie.

| Fp1 = po L -> equivalente

00 carregamento

p(x)=po

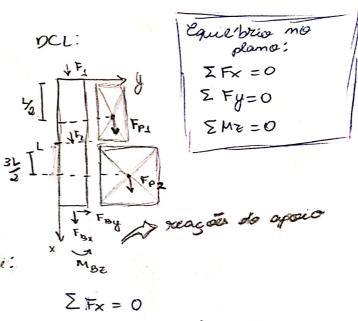
Fp2 = (po2)L -> equivalente

00 carregamento

p(x) = 200

$$F_{gx} = -F_1 - F_2 - 3_{pol}$$

 $F_{gx} = -54000 N$



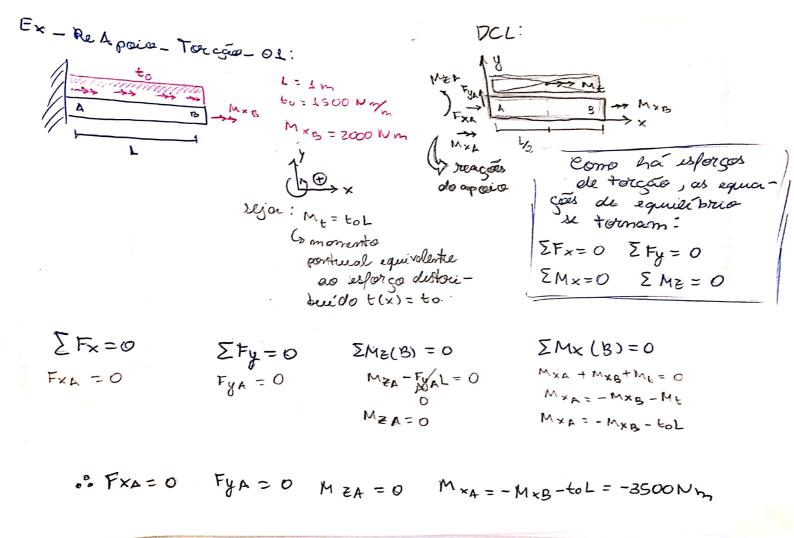
$$\sum_{i} F_{x} = 0$$

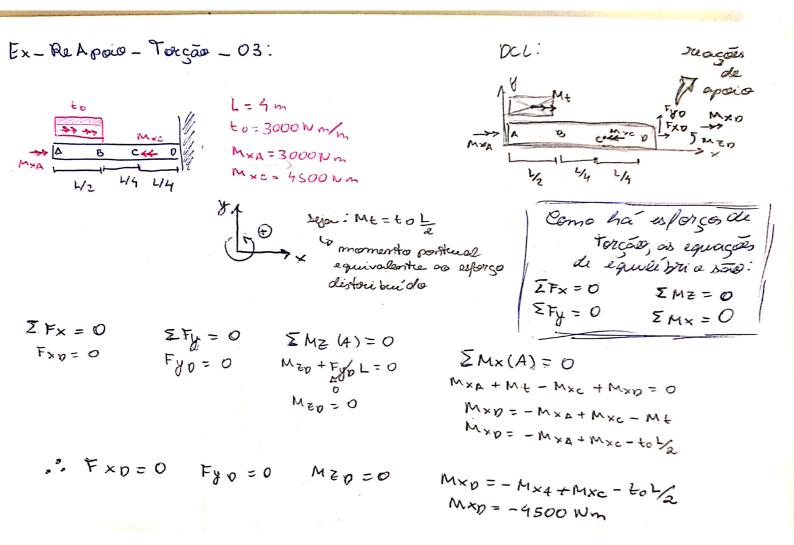
$$F_{1} + F_{p_{1}} + F_{p_{2}} + F_{2} + F_{g_{x}} = 0$$

$$F_{3x} = -F_{1} - F_{2} - F_{p_{1}} - F_{p_{2}}$$

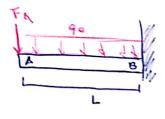
$$F_{3x} = -F_{1} - F_{2} - pol - 2pol$$

$$F_{3x} = -F_{1} - F_{2} - 3pol$$





Ex-Re Apoio - Flexão - 01:

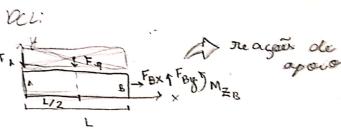


L=3 m Fx=15000 N 90=8000 N/m

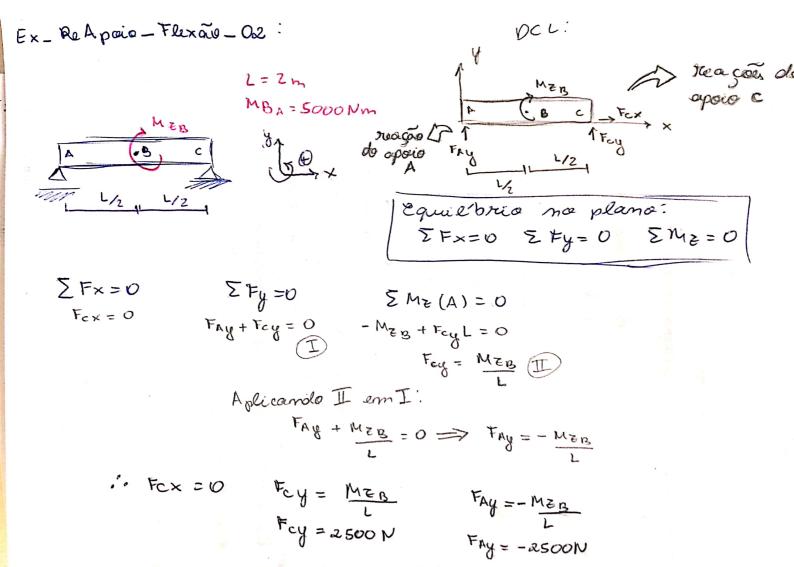
by o. Fq = qo L lo força portual quivalente ao corregormento distribuído

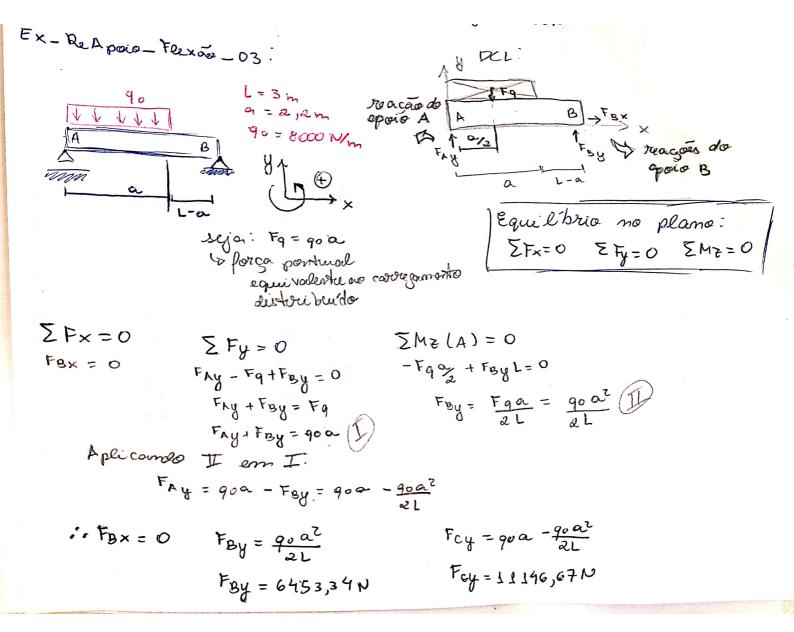
$$\sum F_{\times} = 0$$

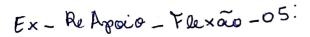
$$F_{0 \times} = 0$$

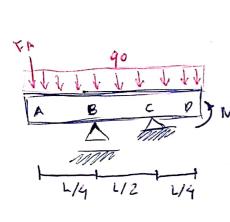


ΣFx=0 ΣFy=0 ΣMz=0 Equações de equilíbrio (no plomo)









$$\sum F_{X} = 0$$

$$\sum F_{y} = 0$$

$$F_{x} = 0$$

$$F_{y} + F_{y} - F_{q} - F_{x} = 0$$

$$F_{y} + F_{y} = F_{q} + F_{x} = q_{0} + F_{y}$$

$$\sum Fy = 0$$

$$\sum Mz(C) = 0$$

$$F_{By} + F_{Cy} - F_{q} - F_{A} = 0$$

$$-F_{By} = + F_{q} + F_{A} = 0$$

$$F_{By} + F_{Cy} = F_{q} + F_{A} = 0$$

$$F_{By} = \frac{2}{L} \left(F_{q} = + F_{A} = 0 \right)$$

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For =
$$\frac{90L - MED - FA}{2}$$
 FBy = $\frac{90L + MED - FA}{2} + FA = \frac{70L + MED - FA}{2}$ Fby = $\frac{4000N}{2}$