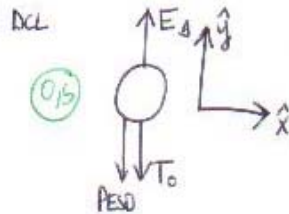


Pauta E₁₁.

CASO 1.

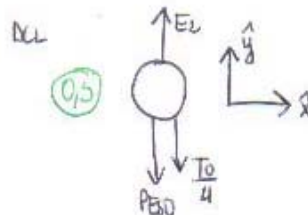
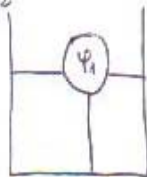


$$\sum F_y = 0$$

$$\Rightarrow E_1 - P_1 - T_0 = 0$$

$$\rho V g - \rho_1 V g - T_0 = 0 \quad (1) \quad (2) \text{ pts}$$

CASO 2



$$\sum F_y = 0$$

$$\Rightarrow E_2 - P_2 - \frac{T_0}{4} = 0$$

$$\rho \frac{V}{2} g - \rho_1 V g - \frac{T_0}{4} = 0 \quad (2) \quad (2) \text{ pts}$$

de (1) $T_0 = V(\rho g - \rho_1 g)$

$$\Rightarrow V = \frac{T_0}{g(\rho - \rho_1)}$$

Reemplazando en (2)

$$gV\left(\frac{\rho}{2} - \rho_1\right) = \frac{T_0}{4}$$

$$g \frac{T_0}{g(\rho - \rho_1)} \left(\frac{\rho}{2} - \rho_1\right) = \frac{T_0}{4}$$

$$4\left(\frac{\rho}{2} - \rho_1\right) = \rho - \rho_1$$

$$2\rho - 4\rho_1 = \rho - \rho_1$$

$$\Rightarrow \rho_1 = \frac{\rho}{3} \quad (1) \text{ pto} \quad //$$

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