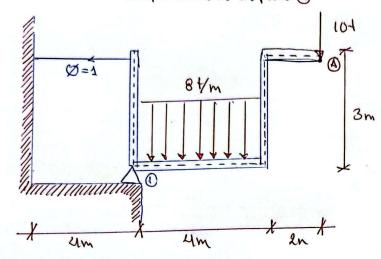
Ejeracio Nº4: Para el siguente sistema Calcular

- a) Normal en el Cable
- 5) desplezamiento en punto A



Datos F= 20.105 4/2

Paso 1: Calcular la Normal en cl Cable

$$\sum M(1) = (2)$$

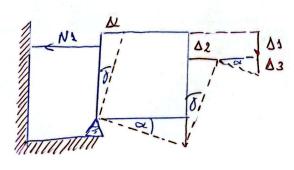
$$-N1 \cdot 3 + 2 \cdot 32 + 6 \cdot 10 = 0$$

$$N1 = 41,333$$

Paso 2: Calcular la de formación Axial del Cable

$$\left\{ \Delta \lambda = \frac{N \cdot \lambda}{E \cdot A} \right\}$$

Paso 3: Haller el desplezamiento Dry DH



$$tan(\theta) = \frac{\Delta L}{3} = \frac{\Delta L!}{4} \rightarrow \Delta L! = \frac{4 \cdot 16.31 \times 10^{1}}{3}$$

$$\Delta L1 = 2.17 \times 10^{1} \text{ (m)}$$

$$tan(\theta) = \frac{\Delta L^2}{3} = \frac{\Delta Ll}{4} \rightarrow \frac{\Delta L2}{4} = 0.1631 (m)$$

$$\Delta H = \Delta L_2 \rightarrow 0.1631 \text{ m}$$

$$\Delta V = \Delta I + \Delta 3 \rightarrow 0.362 \text{ m}$$