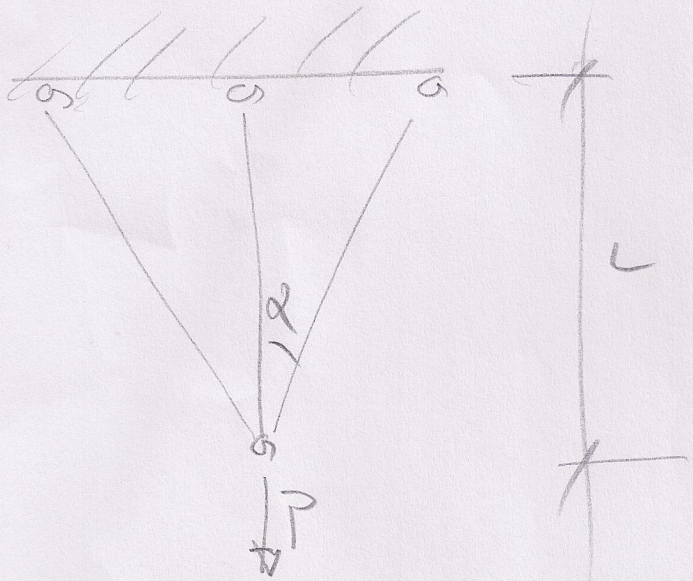
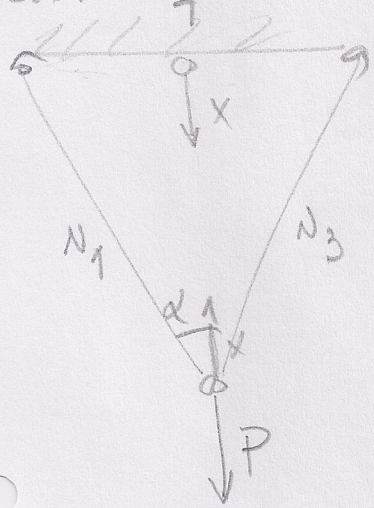
22/1/2023

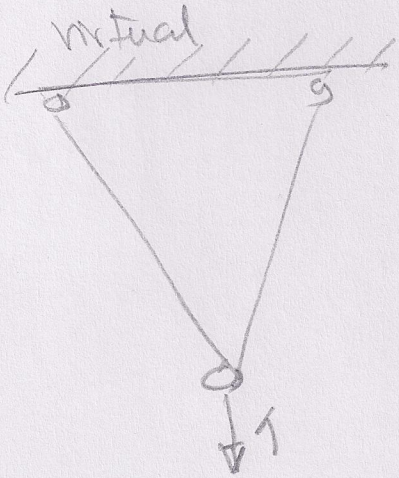
Resolución aplicando TPV



Isost eq



Virtual



$$N_1 = N_3 = \frac{1}{2}\left(\frac{P-X}{\cos\alpha}\right)$$

$$N_1 = N_3 = \frac{1}{2}\frac{1}{\cos\alpha}$$

$$\Delta_1^R = \Delta_3^R = \frac{1}{2}\frac{(P-X)}{\cos\alpha}\cdot\frac{L}{\cos\alpha}\cdot\frac{1}{AE}$$

$$\Delta_1^M = \Delta_3^M = \frac{1}{AE}\cdot\frac{1}{2}\frac{1}{\cos\alpha}\cdot\frac{L}{\cos\alpha}$$

$$\int_2 \times 1 = 2\times\Delta_1^M\times N_1 = 2\times\frac{1}{AE}\times\frac{1}{2}\frac{L}{\cos^2\alpha}\times\frac{1}{2}\frac{(P-X)}{\cos\alpha} \quad \# \int_2 = \frac{1}{AE}\times X\times L$$

$$\frac{L}{\cos^2\alpha}\times\frac{1}{2}\frac{(P-X)}{\cos\alpha} = X\cdot L \Rightarrow \frac{1}{2\cos^3\alpha}P = X\left(1+\frac{1}{2\cos^3\alpha}\right) = \frac{4}{3}\left(\frac{7}{8}\right)P$$

0'77 1'77