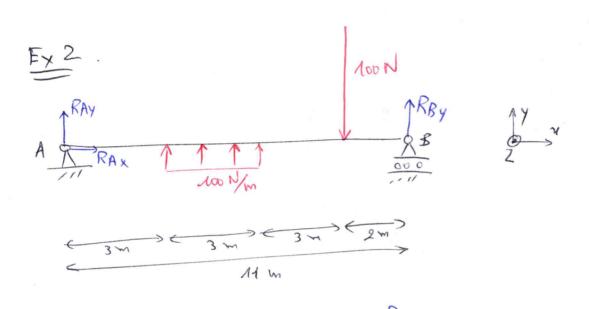
Correction Partiel Hell: 2018-2019



2) degré d'hyperstaticité:
$$N = Nr - Ne = 3 - 3 = 0$$

= o système isostatique = o stable.

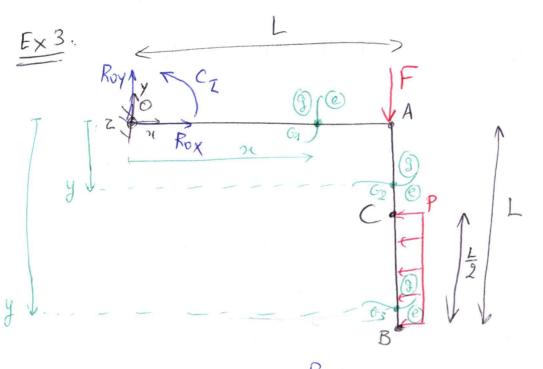
3) PFS:
$$\Sigma = 0$$
 | $R_{Ax} = 0$ | $R_{Ax} = 0$ | $\Sigma = 0$

$$\sum M_{A} = \overline{b}' \longrightarrow \overline{\xi}' + R_{By} \cdot M = 100.9 + 100.3.45 = 0.$$

$$= R_{By} = \frac{100.9 - 100.3.45}{11} = \frac{900 - 1350}{11}$$

$$R_{By} = -40.9 N$$

$$\Re = R_{Ay} = -200 - R_{By} = -200 + 40,9$$
 $R_{Ay} = -159 \text{ N}$



- 1) Encastrement en O

 Rox

 C7
- 2) Points particuliers: (4) O Sharse A Fora appliquée de divedic.
 - C-> debut de B = fi de charge reportie
- 3) Troic Compures: on Ga: entre O et A

 on Ga: entre A et C en G3: entre CerB
- 4) Inville de calculer les reactions (Faire de PFS)

car les 3 compures ne sont pas entre deux liaisons. On chisiva les parties enterées pour Calcula les Torsens.

= + 27 efforts externes / enlevée Jos $G_1(x,0,0)$ = $\begin{cases} N_X = -P\frac{L}{2} & \text{compression} \\ T_Y = -F & \text{cisaillement} \end{cases}$ O(x < L) $M_{FZ} = -F. (L-x) = P\frac{L}{2}. \frac{3}{4}. L \text{ Flexion}$ Siple

 $\begin{cases}
\nabla & \text{coh} \\
G_2(L, y, 0)
\end{cases} = + \begin{cases}
\nabla & \text{eff ext } / \otimes \\
G_2(L, y, 0)
\end{cases} = \begin{cases}
Ny = 0 \\
Tx = -P^{\frac{1}{2}} & \text{wisaffer} \\
Mf_Z = -\frac{P^{\frac{1}{2}}}{2} \cdot \left(\frac{3}{4}L - |y|\right)
\end{cases}$ $= \frac{-\frac{PL}{2} \cdot (\frac{3}{4}L + y)}{2} |Oubsien - \frac{pL}{2} \cdot | -\frac{3}{4}L - y|}$ $= \frac{-\frac{PL}{2} \cdot (\frac{3}{4}L + y)}{2} |Oubsien - \frac{pL}{2} \cdot | -\frac{3}{4}L - y|}$ $= \frac{-\frac{PL}{2} \cdot (\frac{3}{4}L + y)}{2} |O(-\frac{3}{4}L - y)|}{2} = \frac{3}{4}L + \frac{3}{4}L - \frac{3}$ $G_{3}(L,y_{10}) = + \{T \text{ eff ext } / \text{ e}\}G_{3}$ $G_{3}(L,y_{10}) = \begin{cases} Ny = 0 \\ Tx = -p \cdot (L+y) \end{cases}$ $Tx = -p \cdot (L+y) \cdot \frac{L+y}{2}$ $Tf_{2} = -p \cdot (L+y) \cdot \frac{L+y}{2}$ $G_{3}(L,y_{10}) = \begin{cases} Ny = 0 \\ Tx = -p \cdot (L+y) \cdot \frac{L+y}{2} \end{cases}$ G3 (L, y10) -L (y < - L flexic Supla.

6) En vert sur les Torsenvs

(3