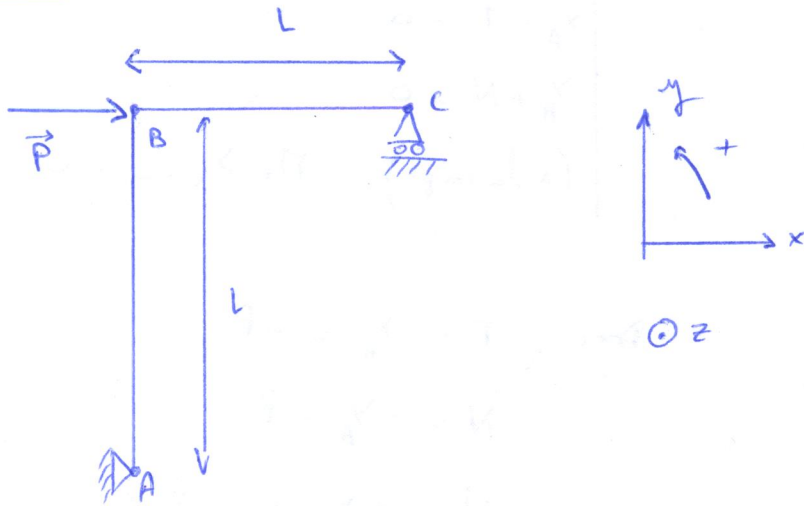


[sdm - 0008]



- ① Bilan : \rightarrow en A : X_A, Y_A
 \rightarrow en B : $\vec{P} = +P \vec{x}$
 \rightarrow en C : Y_C

② $h = 2 + 1 - 3 \times 1 = 0 \Rightarrow$ Isostatique.

③ PFS :

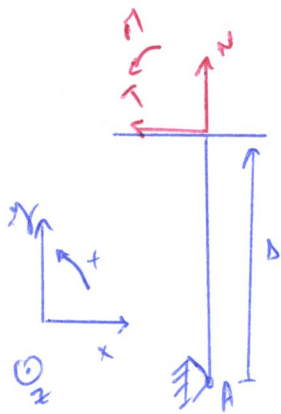
$$\begin{cases} X_A + P = 0 \\ Y_A + Y_C = 0 \\ (\text{en A}) : -PL + Y_C \cdot L = 0 \end{cases}$$

Donc

$$\begin{cases} X_A = -P \\ Y_C = +P \\ Y_A = -P \end{cases}$$

④ 2 corps

⑤ 1^{re} coupe : $0 \leq \Delta \leq L$

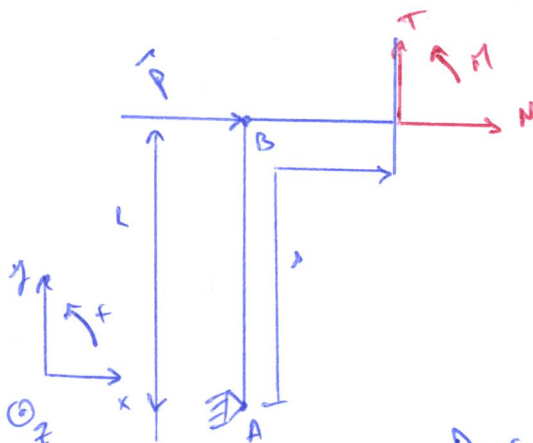


$$\begin{cases} X_A - T = 0 \\ Y_A + N = 0 \\ (\text{à la coupe}) : M + X_A \cdot \Delta = 0 \end{cases}$$

Donc

$$\begin{aligned} T &= X_A = -P \\ N &= -Y_A = P \\ M &= -X_A \cdot \Delta = P \cdot \Delta \end{aligned}$$

2^{eme} coupe : $L \leq \Delta \leq 2L$



$$\begin{cases} X_A + P + N = 0 \\ Y_A + T = 0 \\ (\text{à la coupe}) : M + X_A \cdot L - Y_A (\Delta - L) = 0 \end{cases}$$

Donc

$$\begin{aligned} N &= -P - X_A = 0 \\ T &= -Y_A = +P \\ M &= -X_A \cdot L + Y_A (\Delta - L) = PL - P(\Delta - L) \\ &= P(2L - \Delta) \end{aligned}$$

