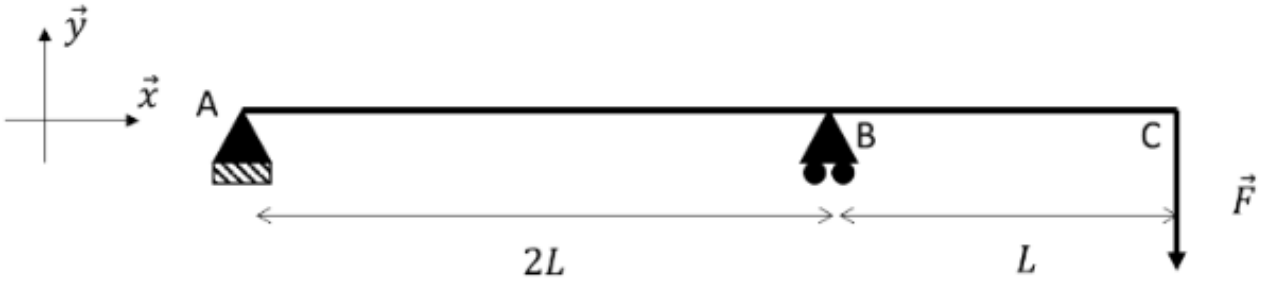


① Bilan : → en A : X_A , Y_A
→ en B : Y_B
→ en C : $\vec{F} = -F\vec{y}$

② $h = k - 3n = 3 - 3.1 = 0$ ⇒ isostatique
↳ 1 solide
↳ 2 + 1

③ PFS : $X_A = 0$
$Y_A + Y_B - F = 0$
(en A) $2L Y_B - 3LF = 0$

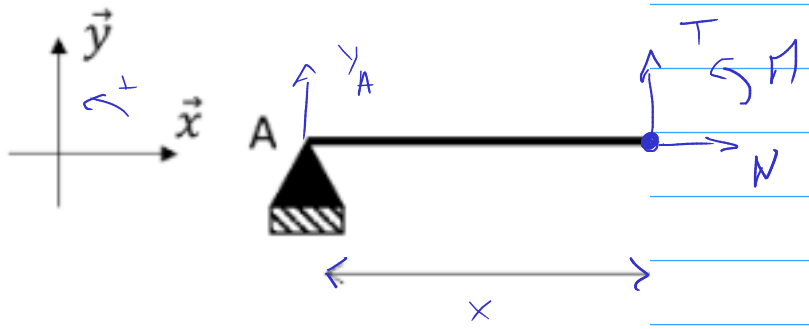
Donc $X_A = 0$

$Y_B = \frac{3}{2} F$

$Y_A = \frac{-F}{2}$

④ 2 coupes.

(5) 1ère coupe : $0 < x < 2L$

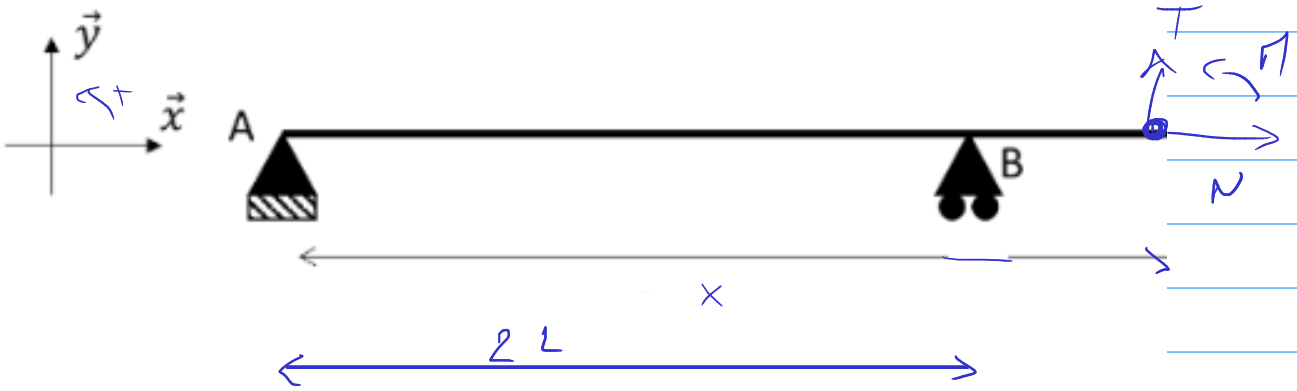


$N + X_A = 0$ Donc $N = 0$

$T + Y_A = 0$ $T = \frac{F}{2}$

(à la coupe) $M - Y_A x = 0$ $M = -\frac{F}{2} x$

2ème coupe : $2L < x < 3L$



$X_A + N = 0$

$Y_A + Y_B + T = 0$

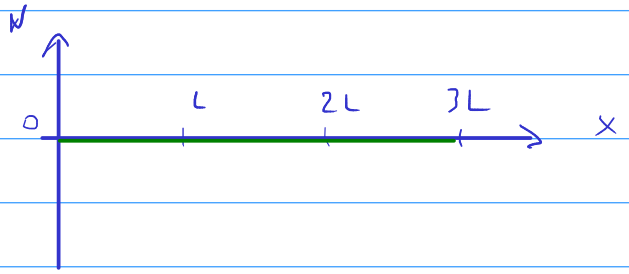
(à la coupe) $M - Y_A \cdot x - Y_B (x - 2L) = 0$

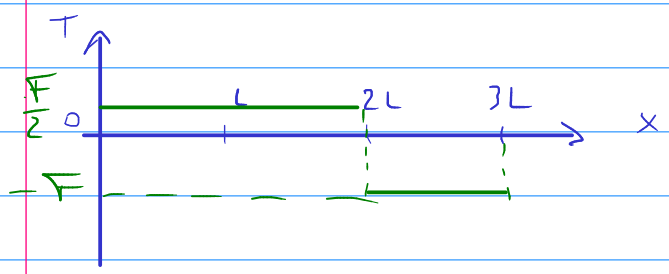
Donc $N = 0$

$$T = -F$$

$$M = -\frac{F}{2}x + \frac{3F}{2}(x - 2L) = Fx - 3FL$$

Diagrammes des efforts internes





$$\frac{dM}{dx} = -T$$