

ETC 1

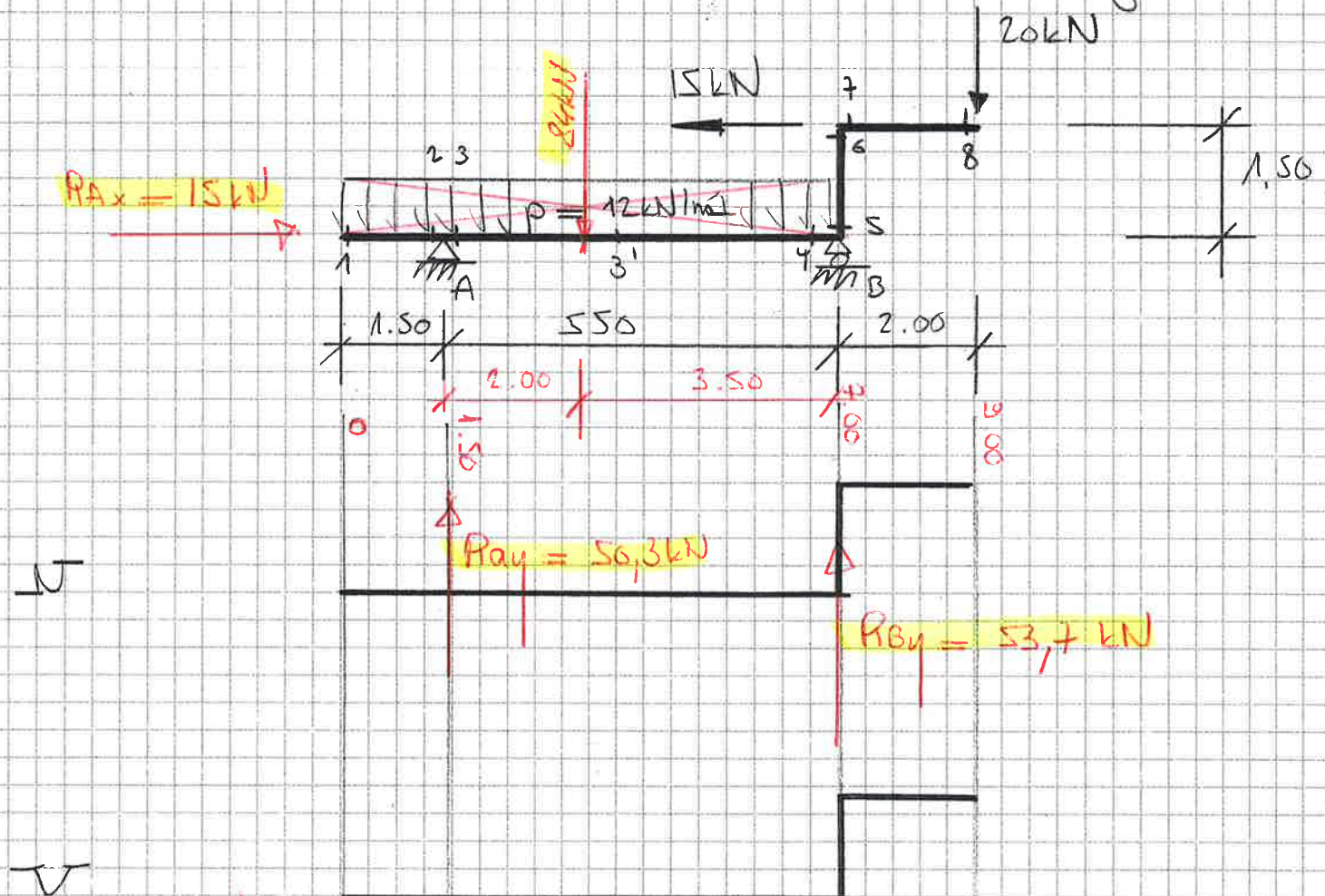
Statique

10.05.22

1

NOM :

1- Déterminez les efforts intérieurs de la structure ci-dessous avec les diagrammes + la position des moments maximum locaux. Valeurs de diagrammes



$R_{Ax} = 15 \text{ kN}$

$R_{Ay} = 50,3 \text{ kN}$

$R_{By} = 53,7 \text{ kN}$

$\sum M_A = 0$
 $(-84 \cdot 2) + (R_{By} \cdot 5,5) + (15 \cdot 1,5) - 20 \cdot 7,5 = 0$
 $R_{By} = \frac{295,5}{5,5} = 53,7 \text{ kN}$

$\sum F_y = 0$
 $-84 - 20 + R_{Ay} + R_{By} = 0$
 $R_{Ay} + R_{By} = 104 \text{ kN}$

$\sum M_B = 0$
 $(+84 \cdot 3,5) - (R_{Ay} \cdot 5,5) + (15 \cdot 1,5) - (20 \cdot 2) = 0$
 $R_{Ay} = \frac{276,5}{5,5} = 50,3 \text{ kN}$

Notations

1 23 47 8



R=10pts Coupes 15pts N spts V spts M 15pts

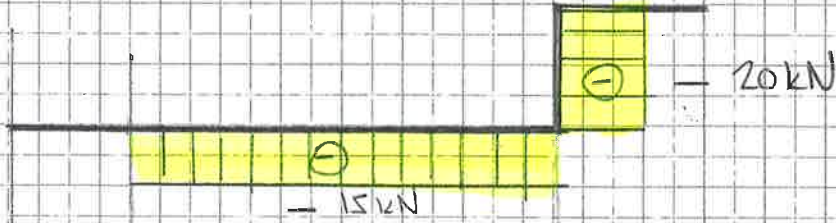
ETC 1 Statique

10-04-18

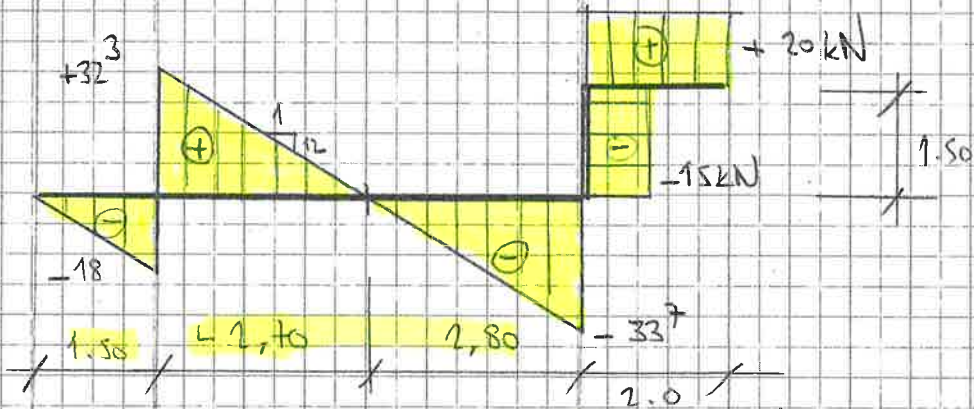
2

Résultats

N



V



M

