

TE rattrapage ETC 3

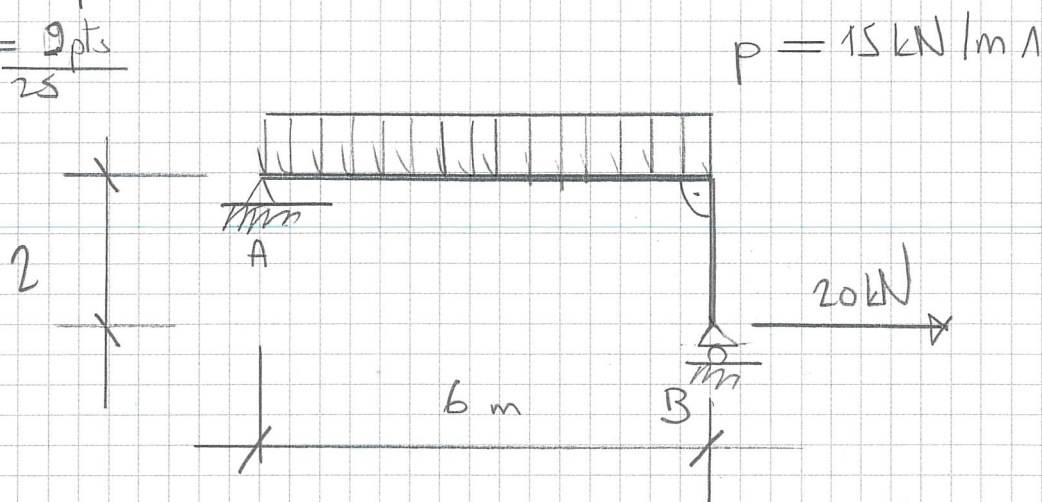
13.01.25

1

1- Déterminez les efforts intérieurs ainsi que le M_{max} dans la structure ci-dessous

R = 6 pts

Compos = 10 pts

Dessin = 9 pts
25

2- Déterminez les efforts dans les barres du treillis annexé. Déterminez analytiquement l'équilibre du nœud A

1	
2	
3	
4	
5	
6	
7	
8	
9	
	1/- kN

Barre 20 pts

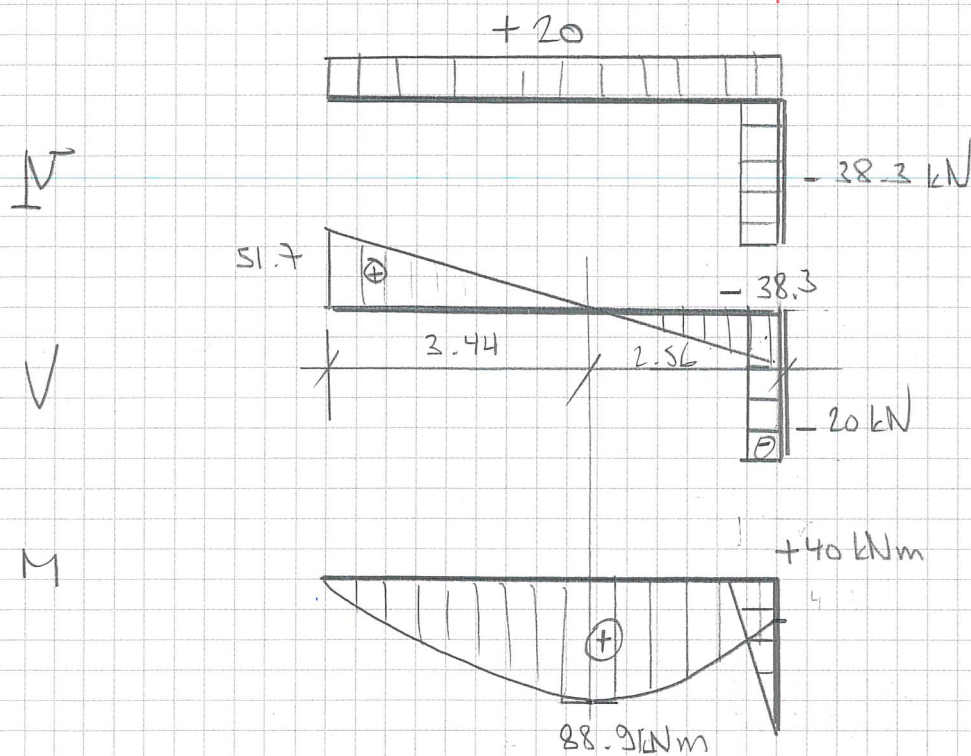
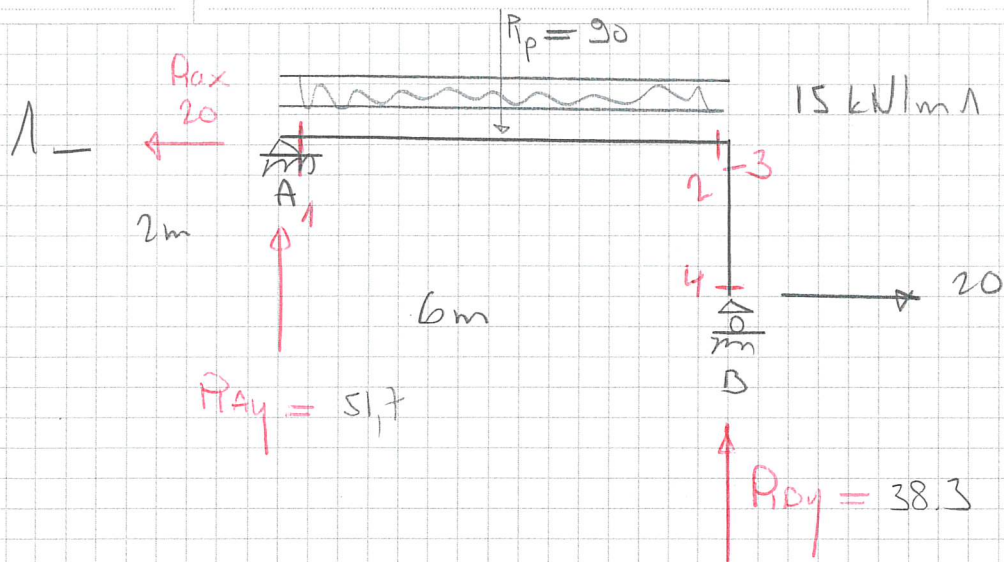
Equilibre nœud A = 5 pts

$$R_{Ax} = -60 \text{ kN}$$

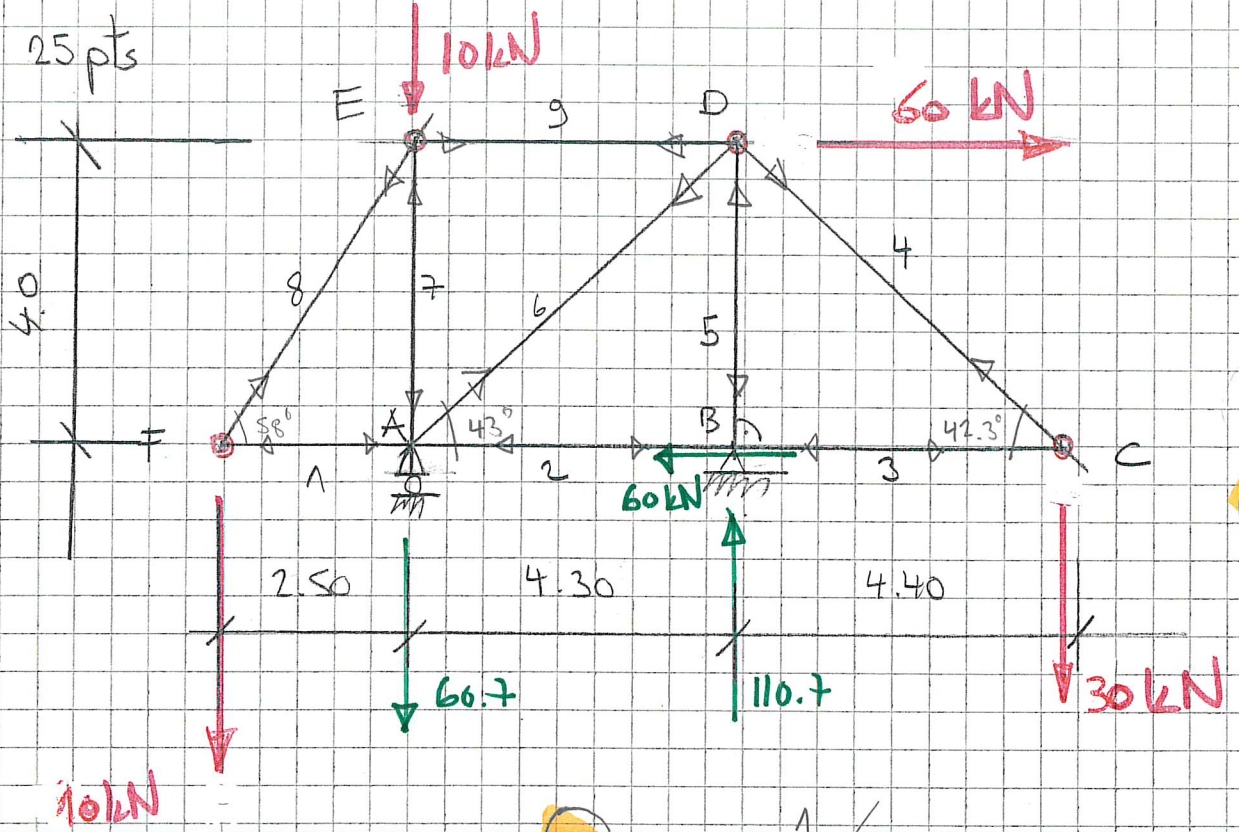
$$R_{Ay} = -60.7 \text{ kN}$$

$$R_{By} = 110.7 \text{ kN}$$

AFRY
AF PÖRY



② 25 pts



1cm = 10kN

NOM : _____

	kN
1	-6.3
2	-93
3	-33
4	44.6
5	-110.8
6	+118.5
7	-20.0
8	11.8
9	+6.3

$R_{Bx} = -60 \text{ kN}$
 $R_{By} = 110.7 \text{ kN}$
 $R_{Ay} = -60.7 \text{ kN}$

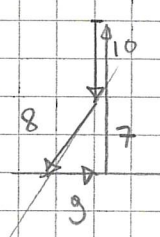
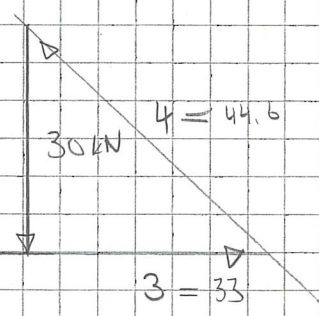
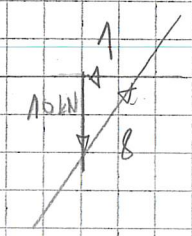
(F)

(C)

(E)

(B)

(D)



$S = 110.7$

$P_{By} = 110.7$

$2 = 93 \text{ kN}$



$S = 110.8$

