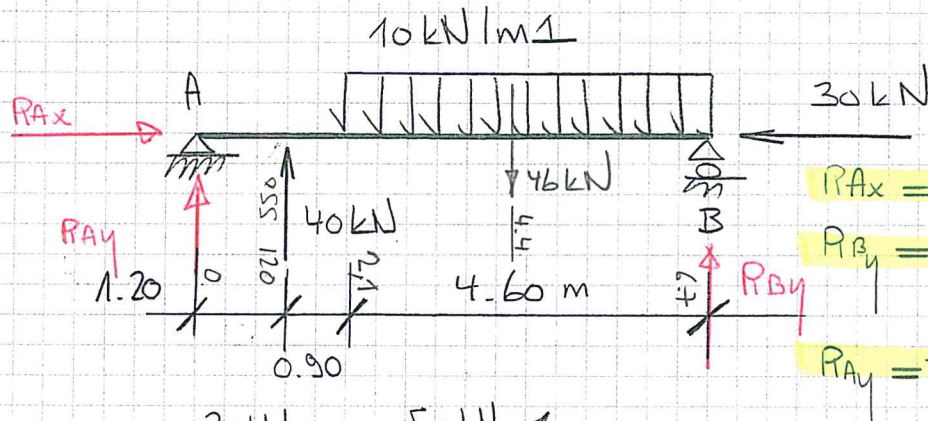


1. Calculez les réactions d'appuis des systèmes suivants:

1A -
10 pts
1s

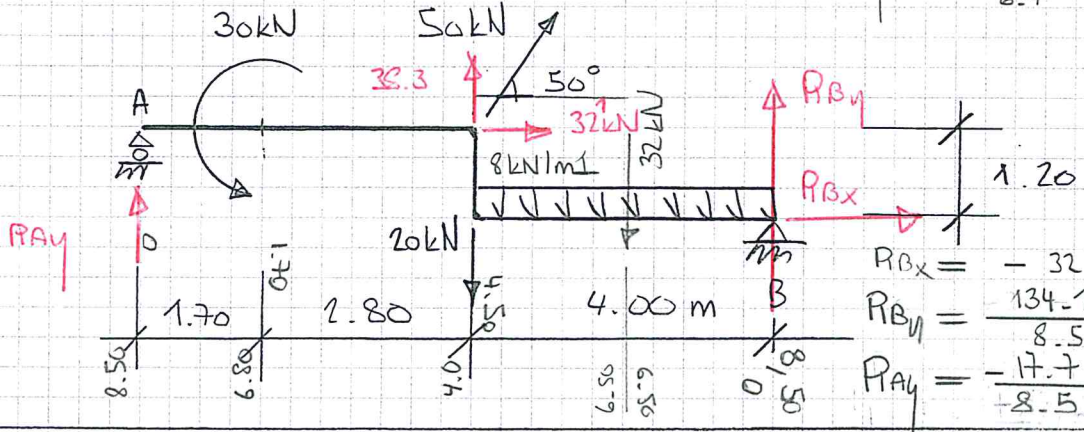


$R_{Ax} = 30 \text{ kN}$

$R_{By} = \frac{-48 + 202.4}{6.7} = 23 \text{ kN}$

$R_{Ay} = \frac{-220 + 105.8}{6.7} = -17 \text{ kN}$

1B -
15 pts
30'

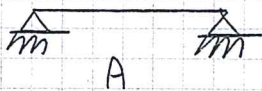


$R_{Bx} = -32.1 \text{ kN}$

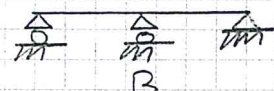
$R_{By} = \frac{134.15}{8.5} = 15.8 \text{ kN}$

$R_{Ay} = \frac{-17.7}{-8.5} = -2.1 \text{ kN}$

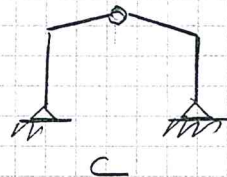
2. Parmi les figures ci-dessous, lesquelles sont ISO - HYPO -
10 pts HYPER statique



A
HYPER



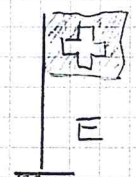
B
HYPER



C
ISO

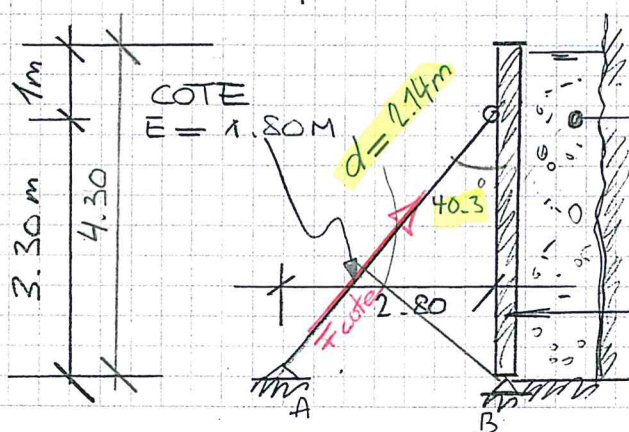


D
HYPO



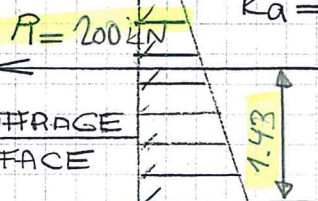
E
ISO

3. Quelle la force dans la cote du coffrage sachant
15 pts qu'il y en a une tous le 1.80 m
30'



$F_{cote} = 1,80 \left[\frac{200 \cdot 1.43}{2.14} \right] = 240,6 \text{ kN} \ominus$

BETON SCC
 $\gamma = 24 \text{ kN/m}^3$
 $k_a = 0.20$ (eau $k_a = 1.0$)



$p = 4.9 \cdot 24 \cdot 0.90 \approx 93 \text{ kN/m}^2$

