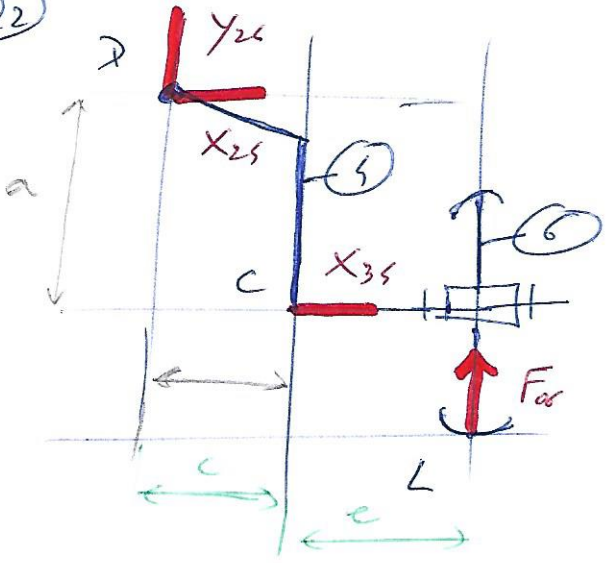


# Suspension.

Q1 Solide 3 soumis à 2 forces  $\Rightarrow \vec{F}_{33} \text{ sur } (BC)$

Q2



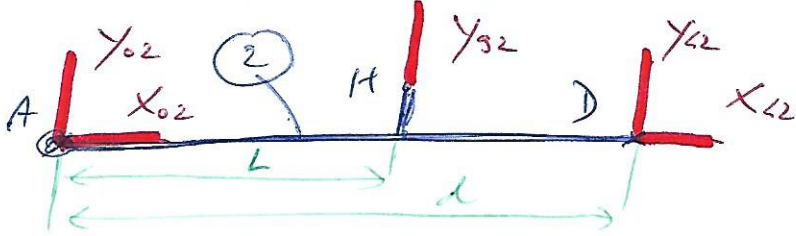
$$\begin{cases} X_{25} + X_{35} = 0 \\ Y_{25} + F_{06} = 0 \\ X_{35} \times a + F_{06}(c+e) = 0 \end{cases}$$

Rem : 3 equations, 3 inconnues.

$$\begin{cases} X_{35} = - \frac{F_{06}(c+e)}{a} \\ Y_{25} = - F_{06} \end{cases}$$

Q3 Solide 5 soumis à 2 forces  $\Rightarrow X_{52} = 0$

Q4



$$\begin{cases} X_{02} + X_{42} = 0 \\ Y_{02} + Y_{32} + Y_{42} = 0 \\ Y_{32} \times L + Y_{42} \times d = 0 \end{cases}$$

Rem : 3 equations, 3 inconnues.

On cherche  $Y_{32}$  en fonction de  $F_{06}$ .

$$Y_{32} = - Y_{42} \cdot \frac{d}{L} = - F_{06} \frac{d}{L}$$