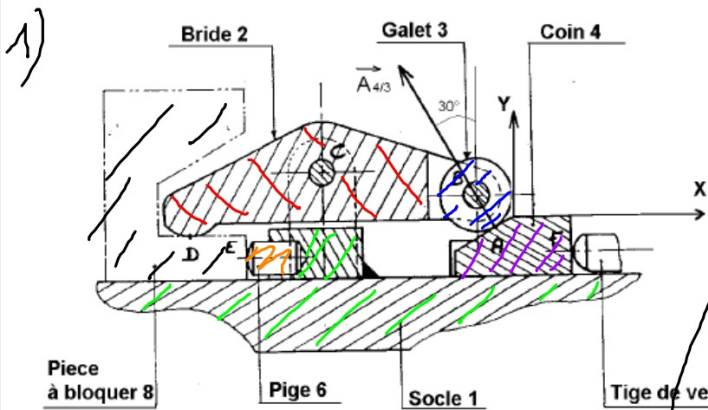
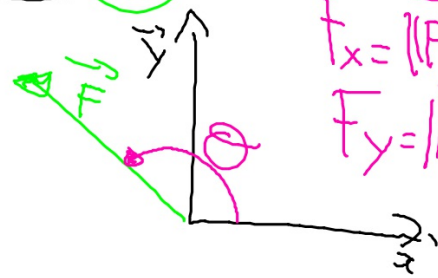
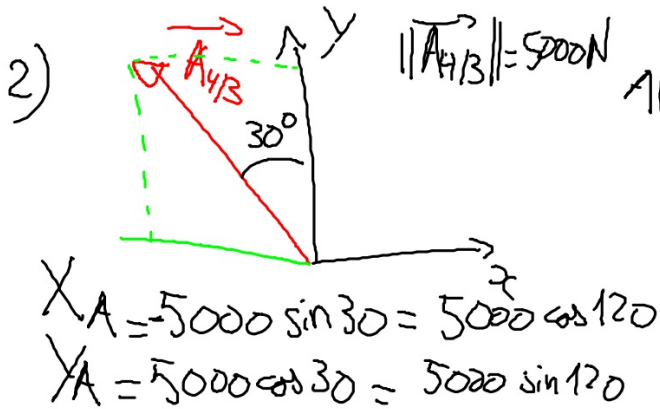
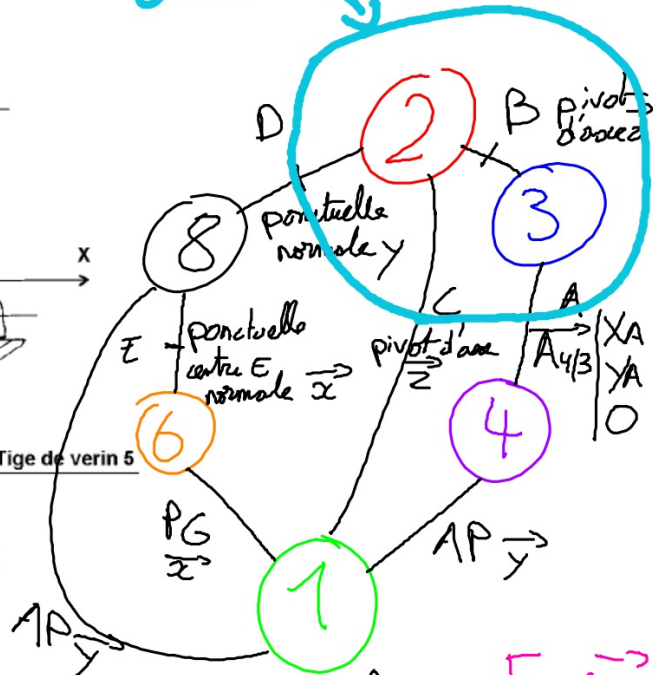


Bride escamotable



on isole 2+3



$$F_x = \|\vec{F}\| \cos \theta$$

$$F_y = \|\vec{F}\| \sin \theta$$

3) On isole 2+3

BANE

D: pointuelle de normale \vec{y}

$$\begin{array}{c|c} T & R \\ \hline 1 & 1 \\ 0 & 1 \\ 1 & 1 \end{array}$$

$$\left\{ \begin{array}{l} 0 \\ 0 \\ 0 \end{array} \right\} = \left\{ \begin{array}{l|l} 0 & 0 \\ y_0 & 0 \\ 0 & 0 \end{array} \right\}_R$$

C: pivot d'axe \vec{z}

$$\left\{ \begin{array}{l} 0 \\ 0 \\ 0 \end{array} \right\} = \left\{ \begin{array}{l|l} x_c & x_c \\ y_c & x_c \\ c & 0 \end{array} \right\}_R$$



$$A: \begin{array}{c|c} \vec{y} & y_A \\ \hline A_{4/3} & y_A \\ & 0 \end{array}$$

$$\left\{ \begin{array}{l} 0 \\ 0 \\ 0 \end{array} \right\} = \left\{ \begin{array}{l|l} 2500 & 0 \\ 4330 & 0 \\ A & 0 \end{array} \right\}$$

4) Appliquer le PFS en \mathbb{C}

$$\{G_{8/2}\} + \{G_{9/2}\} + \{G_{4/3}\} = \{0\}$$

$$\{G_{8/2}\} = \left\{ \begin{array}{c|c} \begin{matrix} 0 & 0 \\ y_D & 0 \\ 0 & 0 \end{matrix} & \begin{matrix} 0 \\ 0 \\ 0 \end{matrix} \end{array} \right\} = \left\{ \begin{array}{c} \overrightarrow{D_{8/2}} \\ \Pi_D + \overrightarrow{C_D} \wedge \overrightarrow{D_{8/2}} \end{array} \right\}$$

$$= \left\{ \begin{array}{c|c} \begin{matrix} 0 \\ y_D \\ 0 \end{matrix} & \begin{matrix} 0 \\ 0 \\ 0 \end{matrix} + \begin{pmatrix} -0,04 \\ -0,02 \\ 0 \end{pmatrix} \wedge \begin{pmatrix} 0 \\ y_D \\ 0 \end{pmatrix} \end{array} \right\}$$

$$\begin{pmatrix} -0,04 & 0 \\ -0,02 & y_D \\ 0 & 0 \end{pmatrix} = \begin{pmatrix} -0,02 \times 0 - 0 \times y_D \\ 0 \times 0 - (-0,04) \times 0 \\ -0,04 \times y_D - (-0,02) \times 0 \end{pmatrix}$$

$$= \left\{ \begin{array}{c|c} \begin{matrix} 0 \\ y_D \\ 0 \end{matrix} & \begin{matrix} 0 \\ 0 \\ -0,04 y_D \end{matrix} \end{array} \right\} \Big|_{\mathbb{R}}$$

$$\left\{ \begin{array}{l} \infty \\ 64/3 \end{array} \right\} = \begin{array}{c} A \\ C \end{array} \left\{ \begin{array}{c} \left. \begin{array}{l} -2500 \\ 4330 \\ 0 \end{array} \right| \begin{array}{l} 0 \\ 0 \\ 0 \end{array} \right\} = \left\{ \begin{array}{c} \vec{A}_{4/3} \\ \vec{\Pi}_A + \vec{C} \wedge \vec{A}_{4/3} \end{array} \right\}$$

$$\vec{C} \wedge \vec{A}_{4/3} = \begin{pmatrix} 0,052 & -2500 \\ -0,016 & 4330 \\ 0 & 0 \\ 0,052 & -2500 \\ 0 & 0 \\ 0,052 \times 4330 - (-0,016)x - 2500 \end{pmatrix}$$

$$\left\{ \begin{array}{l} \infty \\ 64/3 \end{array} \right\} = \begin{array}{c} \\ C \end{array} \left\{ \begin{array}{c} \left. \begin{array}{l} -2500 \\ 4330 \\ 0 \end{array} \right| \begin{array}{l} 0 \\ 0 \\ 185,16 \end{array} \right\}$$

$$\left\{ \begin{array}{c|c} -2500 & 0 \\ 4330 & 0 \\ 0 & 185,16 \end{array} \right\} + \left\{ \begin{array}{c|c} 0 & 0 \\ Y_D & 0 \\ 0 & -0,04Y_D \end{array} \right\} + \left\{ \begin{array}{c|c} X_C & 0 \\ Y_C & 0 \\ 0 & 0 \end{array} \right\} = \left\{ \begin{array}{c|c} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{array} \right\}$$

$$\left\{ \begin{array}{l} -2500 + 0 + X_C = 0 \\ 4330 + Y_D + Y_C = 0 \\ 0 + 0 + 0 = 0 \\ 0 = 0 \\ 0 = 0 \\ 185,16 - 0,04Y_D = 0 \end{array} \right.$$

$$\Rightarrow \begin{array}{l} X_C = 2500 \\ Y_D = \frac{185,16}{0,04} = 4629 \end{array}$$

$$Y_C = -4330 - 4629 = -8959$$

$$\Rightarrow \left\{ \begin{array}{c} \infty \\ 0 \end{array} \right\} = \left\{ \begin{array}{c|c} 0 & 0 \\ 4629 & 0 \\ 0 & 0 \end{array} \right\}$$

$$\left\{ \begin{array}{c} \infty \\ 0 \end{array} \right\} = \left\{ \begin{array}{c|c} 2500 & 0 \\ -8959 & 0 \\ 0 & 0 \end{array} \right\}$$