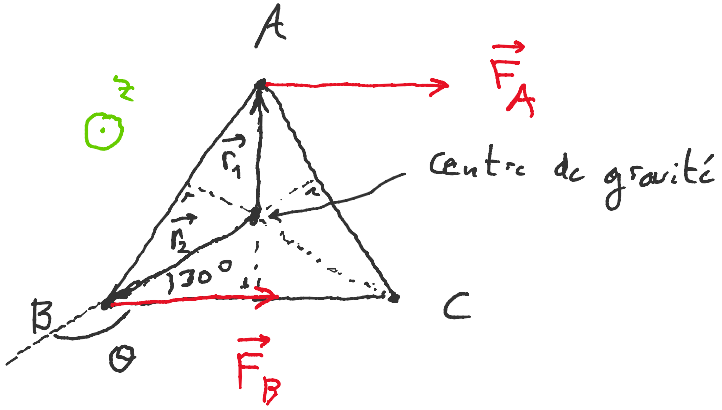
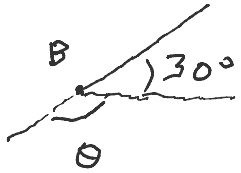
14.88

mercredi, 10 juin 2020 09:12



- Que vaut Θ ? :



$\Theta + 30° = \pi$

$\Theta = \pi - 30° = 150°$

- $r_1 = r_2 = r$
- Newton pour la rotation :

$$\sum \vec{M}_{CG} = \vec{r}_1 \times \vec{F}_A + \vec{r}_2 \times \vec{F}_B = \vec{0} \quad \text{(condition)}$$

Sur $\odot z$: $-r_1 F_A + r_2 F_B \sin\theta = 0$

$\Rightarrow$ $-r F_A + r F_B \sin 150° = 0$

$\Rightarrow$ $F_A = F_B \sin 150°$

$\Rightarrow$ $\frac{F_A}{F_B} = \sin 150° = \frac{1}{2}$