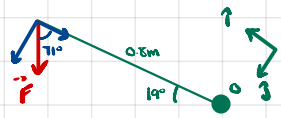
Ex 1



$1\,rad = \frac{360^\circ}{2\pi}$

$\frac{1.73}{360} \cdot 2\pi\,rad = 73^\circ$

$\vec{\tau}_o = \vec{r} \times \vec{F}$

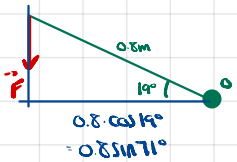
$\vec{r} = 0.8\,\hat{i}$

$\vec{F} = -F\cos 71^\circ \hat{i} + F\sin 71^\circ \hat{j}$

$\vec{\tau}_o = F \cdot 0.8 \cdot \sin 71^\circ \hat{k}$

$= 900 \cdot 0.8 \sin 71^\circ \hat{k}$

$= 680.5\ N \cdot m$



$\vec{\tau}_o = \vec{F} \cdot 0.8 \cdot \cos 19^\circ$