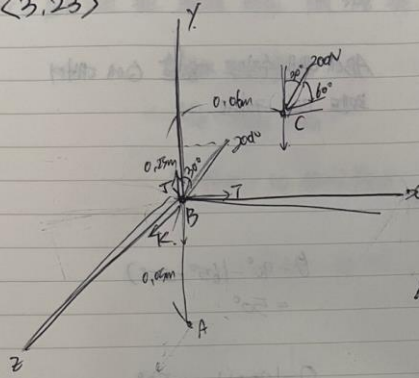


(3,23)



Анкет болжл гаргай.

$$M_A = r_{CA} \times F_C$$

$$r_{CA} = (0,06\text{m})\hat{i} + (0,075\text{m})\hat{j}$$

$$F_C = -(200\text{N})\cos 30^\circ \hat{j} + (200\text{N})\cos 60^\circ \hat{k}$$

$$= -(200\text{N})\cos 30^\circ \hat{j} + (200\text{N})\sin 30^\circ \hat{k}$$

$$= -(200\text{N}) \times 0,8660 \hat{j} + (200\text{N}) \times 0,5 \hat{k}$$

$$= (-173,2\hat{j} + 100\hat{k})\text{N}$$

	\hat{i}	\hat{j}	\hat{k}
a_1	a_2	a_3	
b_1	b_2	b_3	

$$(a_1b_2 - a_2b_1)\hat{i} - (a_1b_3 - a_3b_1)\hat{j} + (a_2b_3 - a_3b_2)\hat{k}$$

$$M_A = r_{CA} \times F_C = 200 \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ 0,06 & 0,075 & 0 \\ 0 & -0,8660 & 0,5 \end{vmatrix} = 200[(0,075 \times 0,5) - (0,06 \times 0,5)\hat{j} - (0,06 \times 0,8660)\hat{k}]$$

$$= (0,50\text{Nm})\hat{i} - (600\text{Nm})\hat{j} - (10,39\text{Nm})\hat{k}$$