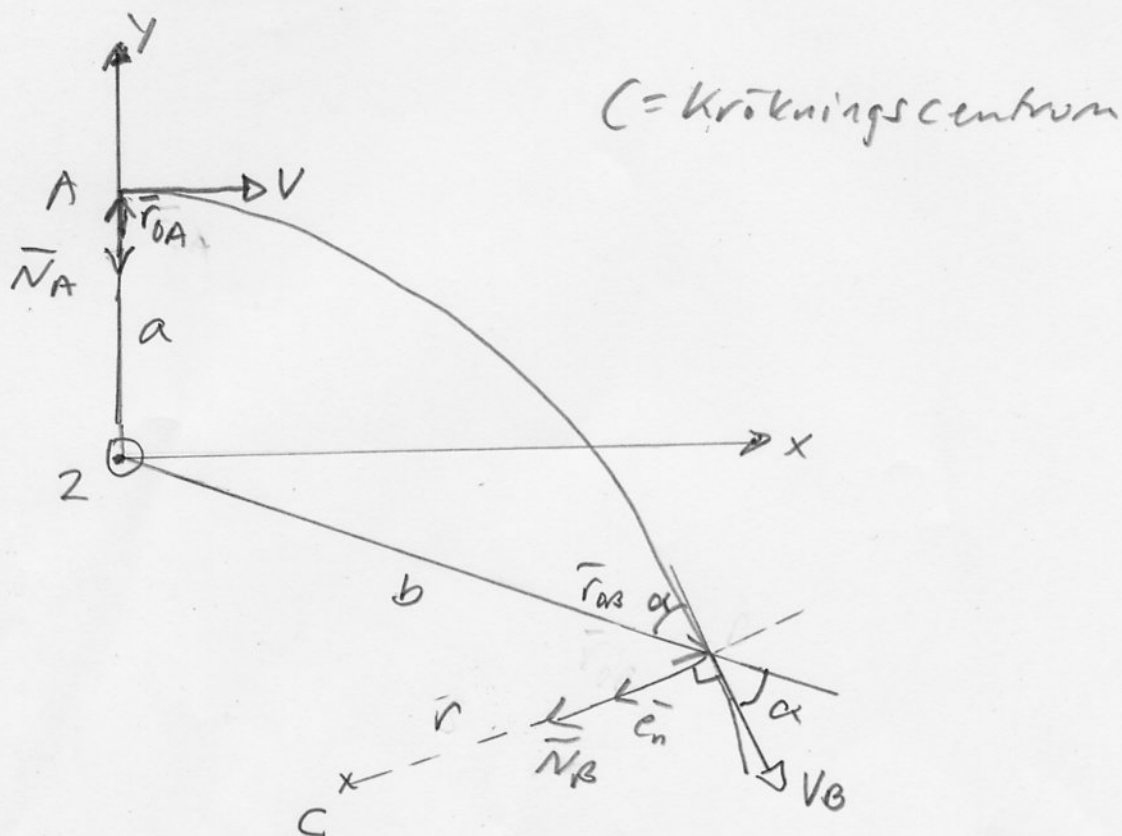


10.7)



Momentenkv. $M_2 = \dot{H}_2$

$$\vec{H}_A = \vec{r}_{OA} \times m\vec{v} \quad \vec{H}_0 = \vec{r}_{OA} \times m\vec{v} + \frac{d}{dt}(\vec{r}_{OA} \times m\vec{v}) + \vec{r}_{OA} \times m\vec{a}$$

A: $M_2^A = (\vec{r}_{OA} \times \vec{N}_A)_z = 0 \Rightarrow \boxed{\dot{H}_2^A = 0}$

B: $M_2^B = (\vec{r}_{OB} \times \vec{N}_B)_z = -b N_B \underbrace{\sin(\alpha + \frac{\pi}{2})}_{+\cos\alpha} = -b N_B \cos\alpha$

Eliminieren N_B

NII: $\vec{F} = m\vec{a}$

$\vec{e}_n$: $N_B = m \frac{v^2}{r}$

$$\boxed{M_2^B = \dot{H}_2^B = -b \frac{mv^2}{r} \cos\alpha}$$

GK