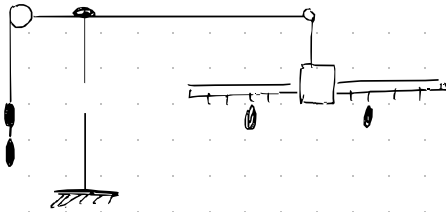
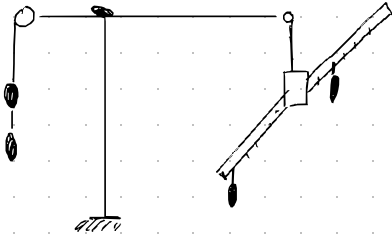


Ratko



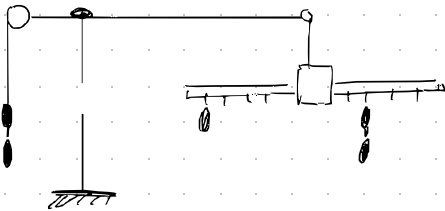
miruje, ravnoteža



Bez momenta nema rotacije

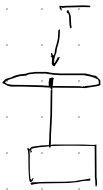
$$\sum_i F = 0$$

$$\sum_i M \neq 0$$



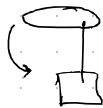
$$\sum_i F = 0$$

$$\sum_i M_i = 0$$



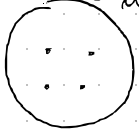
- rotiraj jer se nalazi na točki težišta tijela

↳ da nije u T, sila teža bi vukla tu točku da se nalazi što bliže osi (ispod)



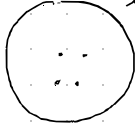
10/10/24

#1 gde rasporedene masa u sredini

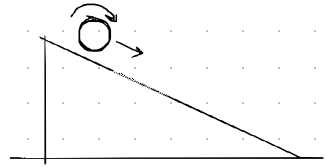


→ veći I

gde rasporedene masa u sredini



→ manji moment tromosti



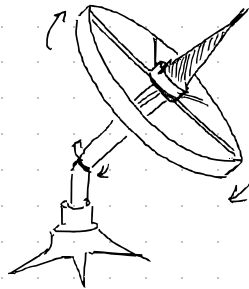
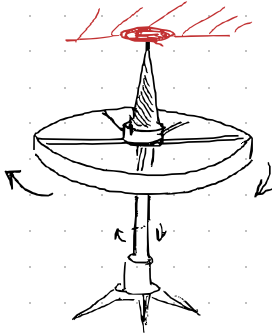
brže se spušta onaj s manjim momentom tromosti

pojasnjeno: $Mgh = \frac{Mv_{cm}^2}{2} + \underbrace{\left(I \frac{\omega^2}{2} \right)}_{\text{ovo mora biti manje (vcm < \omega)}} \rightarrow \text{ovo veće}$

$Mgh = Mgh$

(ista masa, ista visina)

#2 Zvrk - „pamti položaj u kojem je ostavljeno“

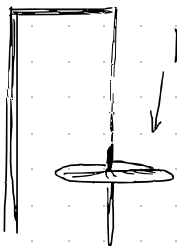


* Zrki prisilno precesira, želi izdržati svoj L ali mu prepušta da

$$\Omega = \frac{r_{cm} \cdot m g}{I \omega}$$

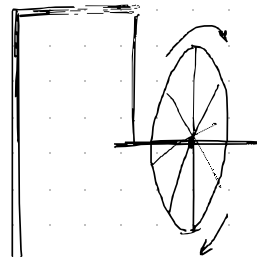
- precesira kad na njega djeluje vanjski moment
- mijenja mu kutnu brzinu

#3



kotac miruje, ne okreće se

zadržavamo



stoji upravno

kutna brzina precesije ovisi o ω u kojem se okreće zvrk

#4 Zamisljamo zrot ali ga pomaknemo djelovanjem različitog momenta (pomaknemo cm)

