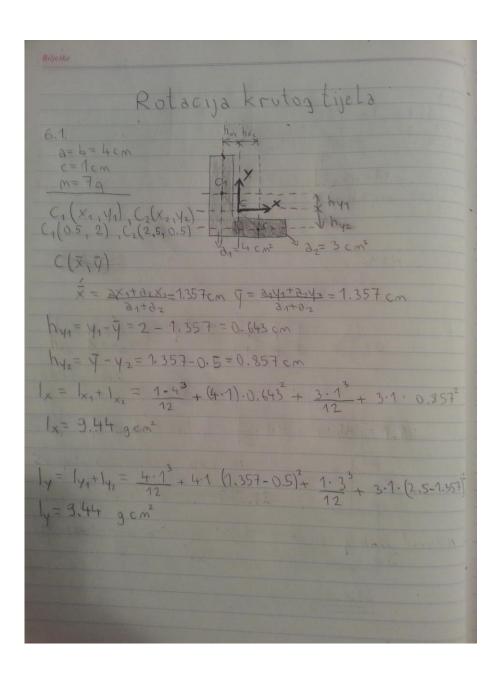
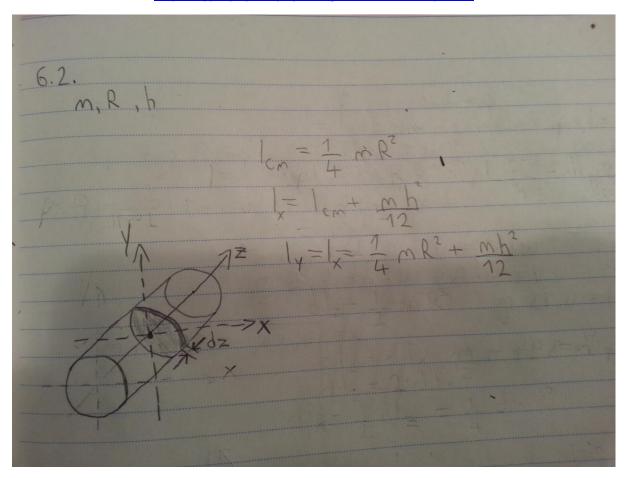
6.Rotacija krutog tijela

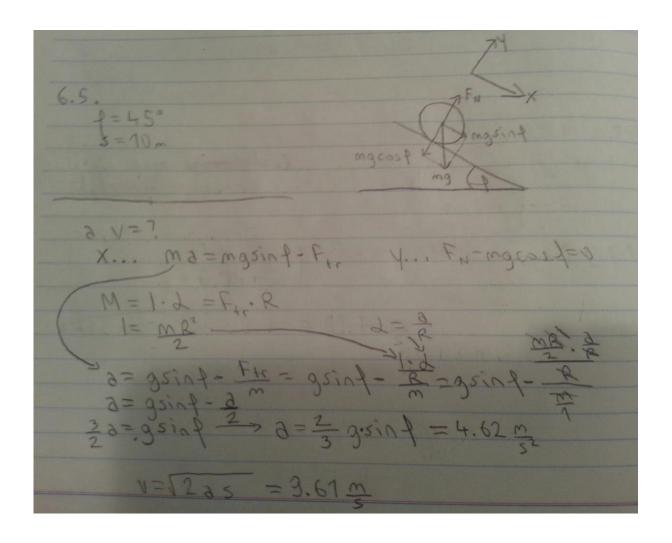


6.2. U ovom zadatku bi trebalo napisati cijeli postupak(malo integriranja). Ja sam to gledao da kad se rotira svejedno bilo oko x ili y osi da je moment tromosti Icm=1/4mR^2 što je zapravo moment tromosti diska, a ovaj drugi je zapravo moment tromost štapa i zbroj ta dva jednak je ukupnom momentu tromosti valjka prema Steinerovom poučku. Ako nekog zanima više ,tu je sličan zadatak riješen samo se valjak rotira oko jedne od njegovi baza.

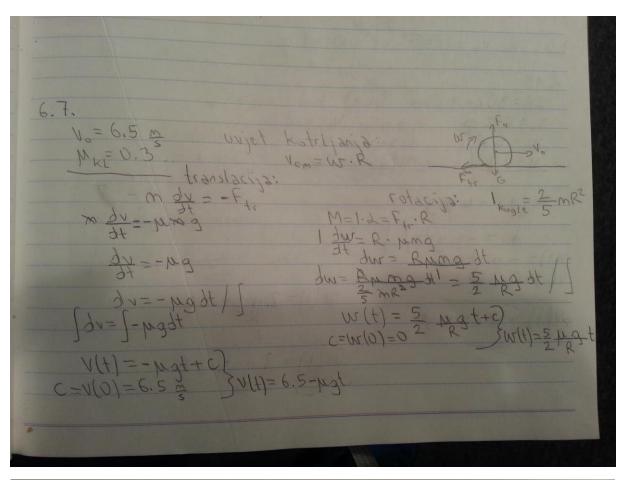
http://hyperphysics.phy-astr.gsu.edu/hbase/icyl.html



| 6.3 |
|--|
| |
| 2R=30 cm W= 25 1200 - 40 TT (2) |
| 1=100 c min |
| J=10cm 2-dw-0.45 501 = -1.256 501 |
| t=50s |
| $v_1 = 7$ $w(50) = w_1 + 2t = 62.8 = 7$ $v = w_2 + 2t = 6.3 \text{ m}$ |
| $\partial_{\xi} = \lambda \cdot d = 0.13 \text{m}$ |
| 3-1-3 |
| 2= w2. d= 394.4 m |
| |

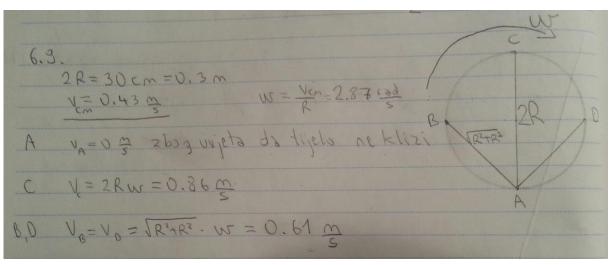


6.6. V = 1m V = 1m



$$6.5 - \mu g t = R \cdot 5 + 9 t$$

$$t(5 + 3 + \mu g) = 6.5 = 5 t = 6.5 = 0.63 s$$



6.10. $2R = 30 \text{ cm} = 0.3 \text{ m} \quad \text{Unjet kateljanja}$: $V = 0.2 \text{ m} \quad \text{Vem} = R \text{ m}$ $V = 0.2 \text{ m} \quad \text{Vem} = R \text{ m}$ $V = 0.2 \text{ m} \quad \text{Maxinja}$: $V = 0.1 \quad \text{mady} = -V \quad \text{Maxinja}$: $V = 0.1 \quad \text{mady} = -V \quad \text{Maxinja}$: $V = 0.1 \quad \text{mady} = -V \quad \text{Maxinja}$: $V = 0.2 \quad \text{mady} = -V \quad \text{Maxinja}$: V

0.2 - Mgt = R. (2 Mgt + 6) 2 Mgt + Mgt = 0.2 - R.6 3 Mgt = 0.2 - R.6 4 = 0.2 - R.6 - 0.2 + s 3 Mg V(-0.24) = 0.43 M W(-0.24) = 2.86 cad

6.12. 10 01=0 W=21.10=2017=62.8351 N= 0.1 'S R=30cm J= M(2 N2=F+11) M=1.2=FtiR+FtiR 1 du = µmgR + piN2. R for - MmgR + M2mg R dw = 4198+ 12 438 St / m(t) = (49+439)++C $C = US(0) = 62.83 s^{-1}$ w(t) = (u+ n2) gt + 62.83 ijet: w = 0 5 $t = \frac{62.83.R}{(N+1)^2 3} = -17.5 s$ 2 = dus = -62.33 = -3.53 rad

 $f = W_{1}t + \frac{1}{2}Ut^{2} = 62.83.17.5 + \frac{1}{2}(-3.59).17.5^{2}$ $f = 549.81 \cdot 63$ $N = \frac{1}{2} = 87.55$

6.13. M = 30 kg R = 1 m f = 20 okr $W_1 = 251 \text{ 20} - 2.1 \text{ rod}$ $V_2 = 1; W_3 = 1; W_4 = 1; W_5 = 1; W_7 = 1;$