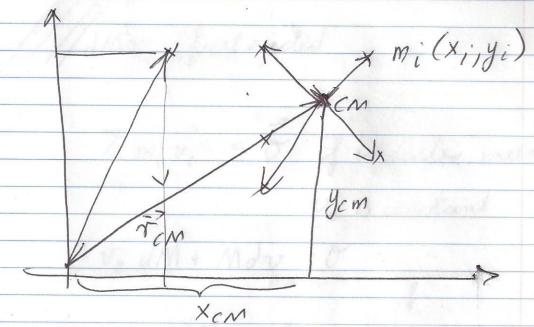
- L1629-p1

loint manes -> extended objects

Center of man of in objects considered as point masses:

 $\frac{7}{T_{CM}} = \frac{Zm_i \tau_i}{Zm_i}, \quad \sum_{m_i = M}$



Mrcm = Zmiri

of -> M ven = Im; vi

d -> Macm = Zmiai = ZFi

Rochet propulsion: Mindudes the man of the hull plus the man of the fuel Hz+Oz /dMve fuel ejected Zmivi = o if in certer man ve is constant - ve dM + Mdv = 0 $ve \frac{dM}{M} = dv$ interpret dMas-AMI -ve ldMl = dv - ve la Mg = vg - vi ve ln-Mi = vg-vi

ln 6 = 1.8

Ve: 1.8 = AV

 $\frac{1}{8}M\bar{v}^2 = \frac{3}{3}R\bar{I}$, Mwater = 18g = 0.018hg

T ≈ 2000K

 $\frac{v^{2} = \frac{3RT}{M}}{\sqrt{\frac{3RT}{M}}} = \frac{3RT}{\sqrt{\frac{3.8.314.2000}{0.018}}} \approx 1.7 \frac{hm}{s}$

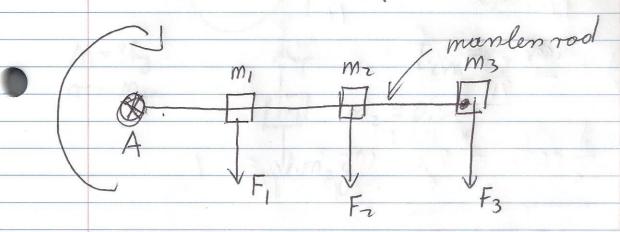
Δv≈ 1,7.10°.1,8 = 3000 m/s

Vere = 1.4 /98.6.37.106 = 1.1.104 m/s

Robotional olynomics

 $\tilde{z} = \tilde{\tau} \times F$, $\tilde{z} = \tau \cdot F \cdot zin \theta = \tau_{\perp} F = \tau F_{\tau}$ with repeat to a center of rotation.

Frim 0



2, + 72 + 73 =

= 1, F, + 12 F2 + 13 F3 F= ma

= r, m, a, +r2 m2 d2 + r3 m3 d3

 $= \tau_1 m_1 \times \tau_1 + \tau_2 m_2 \times \tau_2 + \tau_3 m_3 \times \tau_3$

 $= \left(\sum_{i=1}^{n} T_{i}^{2} \right) \times = \int_{A} \times \times$