Thaceae glugame mlëpgas meia Kunenamura  $R_{M} = \frac{dS}{dA} = \frac{(1+y'^2)^{3/2}}{y''} = \frac{(\dot{x}^2 + \dot{y}^2)^{3/2}}{\ddot{y} \dot{x} - \dot{y} \ddot{x}}$ Dunamus · Clase = Oco + Clore co · I 3/ EF = p = mā XV. Seexmulpes glussepul ·m dt = -Muomm + Floren · m = mo · e - up. yp. ypouroblasso · flows = 0 => p = const · Ken = Komer + Kc.02 · OK = Alm Jабота и эперта · Ko= Kyn + Komm.y.m. · ( .0. y. M : 1)p = con + , 2) Mllam = Mllam Typor mall's = mall' M Money = E + M Money U, - m. H. Maneum unayurca. Maramerul · L = m [ F, U] · L = Man • 3CMW  $M_X=0=> L_X=const$ · F= 6 = ; = = = = ; ·П=-6<u>мм</u> · K = - 1 => E= · K - Kpyrdoe  $\cdot E = \frac{G_{MM}}{2q}, \quad 0 = \frac{r_{P} + r_{A}}{2}$ Bpauzme mbergow mwa [ = I. w · I : 🗲 məri I = ml - comeparate za rowny ] = mR' - rougo, yeury I = m R2 - grea, yepny I = mR' - gra, Sona I = = mr' - copy I = 1 ml, - chiham do chiland  $I = m\left(\frac{q^2}{12} + \frac{\beta^2}{12}\right) - \text{Manogrander},$ I = = mR1 - wap In= I+mR2 1x+Iy+Iz=2 L

· K = Komu + mlly · I mayor glusefue = polycom ment bayya nexamapari no-· U111 = U111  $\overline{Q}_{AB} - \overline{Q}_{BB} = \frac{|\overline{U}_{b} - \overline{W}_{b}|^{2}}{AA}$ Jupackonin Ĺ=M  $\overline{M} = [\overline{\Omega}_{m_i}, \overline{L}]$ Tupackon Sygeon Gassponer boxpyr began acu, a move rymnomente F bygen ongepante hj. za mjetma Kumenamuneckue sopopermu CTiO · Sin = C2(t2-6)2-(x2-x2)-(y2-y2)2... - un-S12 = 51 (x=(x'+Uf')x · t' = + { hopens | y = y' (f=(f+#x))8 · Jappen Donneja (Moganni) In - Gens & Kommen, reply somapoe squi-Ensure pargraem 200 anna  $J_{N} = T \pm \frac{UJ_{N}}{1 \mp B} = \frac{T}{1 \mp B}$   $T' = T \sqrt{\frac{1 \pm B}{1 \mp B}} , T - regreg uggg.$ T'- regus paymena with - Apaperen Donneya (Rosyanian)  $T = T_0 \frac{1 - 5 \cos \theta}{\sqrt{1 - 5^2}}$ •  $\frac{\ell \ell_{aco}}{c} = \beta$ ,  $\frac{\ell \ell_{c}}{c} = \beta$ ,  $\frac{\ell \ell_{c}}{c} = \beta' = \beta' = \beta' = \frac{\beta' \pm \beta}{1 \pm \beta' \beta}$ Dunamura CTIO ع = 60 + 1 عم Ex + 2 Ex Eso + Eso = p2 C2 + Eco ( E' = p'c' + E' > EA = (co - EA. - EBO (\*) E = E. . J = pc

· Japerosmneckul X + ω'x =0 Puz. Masymus:  $\omega^2 = \frac{mg \times y_m}{70}$ · Barmyseawargue X+2 γ X + ω X=0 (x) F=-Bx, y= B/m T < WO - ECM KONSTAINS TZ 60 - per KONSTAINING · Bungrigenme  $\omega_{\text{max}} = \sqrt{\omega_o^2 - 2\sqrt{2}}$   $\chi_{\text{max}} = \frac{F_o}{2 \, \text{m } \omega_o} \int J_{\text{aggrave}}$ X+25x+ atx = Fusul  $A(\omega) = \frac{F_0}{\left((44^2 - \omega^2) + (2\sqrt{\delta}\omega)^2\right)^{1/2}}$ · doponnocomo  $0 = \frac{X_{\text{max}}}{X_{0}} = \frac{\omega_{0}}{2 \, \delta} = \frac{\Im}{d} , d = \frac{1}{N} \ell_{N} \frac{X_{1}}{X_{N}}$ XVLO ans = Wor + 2 Dlan + 2k 1 llow for five magne = F-2m lloma. In - m I'R -- Beaut glusesma 6 200 que posisognera Meopus ynpyrocom • = F = 85 = E # 5 •  $U = \frac{F \Delta \ell}{2}$ ,  $\frac{V}{\ell \ell} = V = \frac{F \ell^2}{2}$ ·  $\frac{\Delta q}{q} = -M \frac{\Delta l}{\ell} = -M \frac{\delta}{E}$ , M = KOSAP. Trywisho · U36=√長 · Bremgosse primesismi:  $\mathcal{E}_{Y} = \frac{\delta_{X}}{E} - \frac{M}{E} (\delta_{y} + \delta_{z}) \quad \mathcal{E}_{z} = \frac{\delta_{z}}{E} - \frac{M}{E} (\delta_{x} + \delta_{y})$ E) = 투 -취 (5~ 2=) · Bucomojanne comame:  $\xi = \xi y = \xi z = \frac{\delta}{F} (1-2M)$  $\frac{\Delta U}{U} = \xi_{K} + \xi_{Y} + \xi_{Z} = \frac{1}{K}, 1ge$ k - Kosp. bucomp. concamue Tugpagnya wa · pls = const  $\frac{\ell \ell^2}{2} + gh + \frac{p}{p} = const (personance)$ · ll = 12gh - Majureru · Fegs = N S dlx Trogram cooparm · APS+ = -7 Su du (#) AP. This - 2 - 2 Tir. e du  $\mathcal{U}(r) = \frac{\Delta P}{\sqrt{2L}} \left( p^2 - r^2 \right), \quad dQ = \mathcal{U}(r) \cdot 2 \tilde{\Pi} r dr$ Q = AP AR  $Re = \frac{K}{A} = \frac{ee \cdot p \cdot L_{xap}}{n_r}$ Re >>1 => Lopenyum Recal => Jugazeno

Kovedanus