$$M_1 = M_2 = 0.260 \text{kg}$$

$$M = 0.010 \text{kg}$$

$$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} = \frac{1$$

$$0 = \frac{\sin(\overline{t_0} + \overline{t_A})}{m} = 0$$

$$Ay = \frac{\cos \alpha \left( F_A + F_B \right)}{M}$$

$$S = 6.67 \cdot 10^{-11} \text{Nm}^2/\text{kg}^2$$

$$(0.9 = 2.08 \cdot 10^{-0})$$
 u smeru

$$T = \frac{t}{15,65} \qquad T = 5520,765 \qquad T = \frac{2\pi r^{\frac{3}{2}}}{8m^3} \qquad \Gamma = \Gamma z + h$$

$$T = \frac{2\pi r^{\frac{3}{2}}}{8m_2}$$

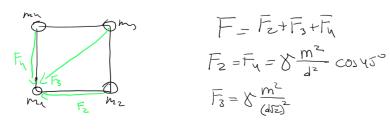
$$V^{\frac{2}{3}} = \frac{\sqrt{m_2}}{2\pi}$$

$$V^{\frac{3}{2}} = \frac{\sqrt{8m_2}}{2\pi}$$
 $V = \sqrt[3]{\frac{7^28m_2}{4\pi^2}}$ 
 $\sqrt{1 - 6,748.40^4}$ 

13,28) 
$$L_{PZ} = \frac{1}{9} L_{MS}$$
,  $V_{MS} = 5,75-10^{10} M$   
 $1.06 \text{ T} = 3,05.24.60^2 = 26.69765$ 

$$\int = \frac{\sqrt{8} \, w^{sn}}{5 \, u^{sn}} \int_{C_{3}} \int_{C_{3}} \frac{8 \, u^{sn}}{1 \, u^{sn}} \int_{C_{3}} \frac{8 \, u^{sn$$

$$b) \quad T = \frac{2\pi v}{2\pi}$$



$$F_3 = 8 \frac{m^2}{(4/2)^2}$$

$$d = 10.0 cm = 0.10 m$$
  
 $M_1 = M_2 = M_3 = M_n = 800 kg$ 

$$F = 8 m^2 \left( \frac{2 \cos 45}{d^2} + \frac{1}{d^2 2} \right)$$

$$\int F_2 8, 17 \cdot 10^3 N$$

$$W = 2$$
 $E = E_{\text{Evrope}}$ 

$$\mathcal{E} = \mathcal{L} \mathcal{W} \mathcal{E} = \mathcal{G}$$

$$W = \sqrt{\frac{\varepsilon}{L}} = 0.553 \cdot \frac{60s}{2\pi ral}$$

$$^{\circ}$$
  $m_{\tau} = ? q_{\tau} = ?$ 

$$\mathcal{F} = \frac{m_T}{V_T} \qquad \boxed{V_T = \frac{V_T}{3} V_T^3 \frac{1}{11}}$$

g=8 RE Jg=1,3-106 mls

$$M_{T} = 3V_{T}$$
  $M_{T} = \frac{4}{3}\beta \gamma_{T}^{3} = \left[M_{T} = 22879.00^{10}\text{kg}\right]$ 

$$Q_{7} = 8 \frac{m_{7}}{r_{7}^{2}} \qquad Q_{7} = 768.10^{-3} \text{m/s}^{2}$$

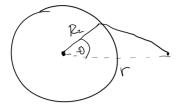
b) mg = mu = 
$$\frac{2^3}{V_T}$$

$$W = \frac{V^2}{V_T}$$

$$V = \sqrt{g_T + v_T}$$

$$V = \sqrt{g_T + v_T}$$

$$r = \frac{1}{\sqrt{8m^2}} \qquad r = \frac{1}{\sqrt{2m^2}} \qquad r = 3 \sqrt{\frac{1}{2} \sqrt{2m^2}} \qquad r = 3$$



$$Ek_{x} = mv^{2}\frac{1}{z}$$

$$\Pi_{X} = -8 \frac{M_1 m_2}{F}$$

$$E_{z} = \frac{1}{2} \text{ m } O_z^2$$

$$\int_{1} = - \frac{m m_{h}}{r_{1}} - \frac{m m_{r}}{r_{2}}$$

$$\prod_{l} = -\lambda \frac{mm_{h}}{r_{l}} - \lambda \frac{mm_{b}}{r_{2}} \qquad \prod_{l} = -\lambda \cdot 345 - 10^{-10}$$

$$\prod_{2} = -3 \frac{\text{mmb}}{0.8} - 3 \frac{\text{mmb}}{0.2} \qquad \prod_{2} = -3.751.10^{-10}$$

$$13,65$$
)  $M_{0}, k_{1}M_{2}$ 

$$k_{0} = R_{2} + k$$

$$9 = 2$$

$$E_{2} = \frac{1}{2} m \approx 20^{2}$$

$$-\frac{1}{2}\frac{m^{2}m^{2}}{12^{2}+1}=\frac{1}{2}m^{2}n^{2}-\frac{1}{2}\frac{m^{2}m^{2}}{12^{2}}$$

$$2^{2} = -28 M_{2} \left( \frac{1}{R_{2} + 1} - \frac{1}{R_{2}} \right)$$

$$2^{2} = -28 M_{2} \left( \frac{1}{R_{2} + h} - \frac{1}{R_{2}} \right)$$

$$2^{2} = 28 M_{2} \left( \frac{1}{R_{2}} - \frac{1}{R_{2} + h} \right)$$

$$2^{2} = 28 M_{2} \left( \frac{R_{2} + h}{R_{2} + R_{2} + h} \right)$$

$$2^{2} = 28 M_{2} \left( \frac{R_{2} + h}{R_{2} + R_{2} + h} \right)$$

$$2^{2} = \frac{28 M_{2} k}{R_{2} (R_{2} + h)} \implies 2^{2} = \frac{28 M_{2} k}{R_{2} (R_{2} + h)}$$

13.66) 
$$A = E_2 - E_1$$

$$R_0 \approx R_2$$

$$A = ?$$

$$\begin{aligned}
& = -8 \frac{m m_z}{R_z} \\
& = -8 \frac{m m_z}{2R_z} \\
& = -8 \frac{m m_z}{2R_z} + 8 \frac{m m_z}{R_z} \\
& = -8 \frac{m m_z}{2R_z} + 28 \frac{m m_z}{2R_z}
\end{aligned}$$

6) 
$$E_{k}=0$$

$$\Pi_{x}=-8\frac{mm_{L}}{r}=25$$
 5 je dalje  $-2$  r jevece  $-3$   $\Pi_{x}$  teri  $0$ 

$$E_{3}=0 \Rightarrow E_{3}-E_{2}=A_{L}=3$$
  $A_{2}=A$ 

 $A = X \frac{mmz}{2Rz}$ 

13.73) 
$$0_1 = 20.10^4 \text{ m/s}$$

$$\Gamma_1 = 250.10^4 \text{ m}$$

$$0_2 = ?$$

$$\Gamma_2 = 5,00.10^4 \text{ m}$$

$$Ek_{1} + N_{1} = Ek_{2} + N_{2}$$

$$Ek_{2} = \frac{1}{2} m 2^{2}$$

$$Ek_{2} = \frac{1}{2} m 2^{2}$$

$$N_{1} = -8 \frac{mm_{s}}{r_{2}}$$

$$\frac{1}{2} m 2^{2} - 8 \frac{mm_{s}}{r_{1}} = \frac{1}{2} m 2^{2} - 8 \frac{mm_{s}}{r_{2}}$$

$$\frac{1}{2} m 2^{2} - 8 \frac{mm_{s}}{r_{1}} = \frac{1}{2} m 2^{2} - 8 \frac{mm_{s}}{r_{2}}$$

$$2^{2} - 2^{2} = 28 \left(\frac{m_{s}}{r_{1}} - \frac{m_{s}}{r_{2}}\right)$$

$$2^{2} = \sqrt{2^{2} - 28 \left(\frac{m_{s}}{r_{1}} - \frac{m_{s}}{r_{2}}\right)}$$

$$\sqrt{2^{2}} = 6.81 - 10^{4} m/_{s}$$

13.77) a) 
$$2\alpha = \Gamma \alpha + \Gamma \rho = h\alpha + h\rho + 2\Gamma z$$
  
 $\Gamma \alpha - \alpha \rho \alpha q e j \alpha$   
 $\Gamma \rho - \rho e \Gamma \alpha e s + \alpha$   
 $\alpha = \frac{h\alpha + h\rho}{2} + \Gamma z \implies \alpha = 8,58.10^6 \text{ m/s}$   
 $T = \frac{2\pi \alpha^{\frac{3}{2}}}{|\nabla m|} \int_{-\infty}^{\infty} T = 7,51.10^{\circ} s$ 

(b) 
$$\frac{V_p}{V_a} = \frac{\Gamma_a}{\Gamma_p} = \frac{R_z + h_a}{R_z + h_p} = 1,53$$

C) 
$$V_{p} = 1.630a$$
 $E_{p} + N_{p} = E_{p} + N_{a}$ 
 $\frac{1}{2}m v_{p}^{2} - y \frac{mm_{z}}{r_{p}} = \frac{1}{2}m v_{a}^{2} - y \frac{mm_{z}}{r_{a}}$ 
 $v_{p}^{2} - \frac{28m_{z}}{r_{z} + h_{p}} = v_{a}^{2} - \frac{28m_{z}}{r_{z} + h_{a}}$ 
 $(1,53v_{a})^{2} - v_{a}^{2} = -\frac{28m_{z}}{r_{z} + h_{a}} + \frac{28m_{z}}{r_{z} + h_{p}}$ 
 $2,34 v_{a}^{2} - v_{a}^{2} = 28m_{z} \left(\frac{1}{r_{z} + h_{p}} - \frac{1}{r_{z} + h_{a}}\right)$ 
 $1,34 v_{a}^{2} = 28m_{z} \left(\frac{1}{r_{z} + h_{p}} - \frac{1}{r_{z} + h_{a}}\right)$ 
 $v_{a} = \frac{28m_{z} \left(\frac{1}{r_{z} + h_{p}} - \frac{1}{r_{z} + h_{a}}\right)}{1,34}$ 
 $v_{p}^{2} = 8u_{z} \cdot v_{z}^{3} \cdot v_{z}^{3} \cdot v_{z}^{3}$ 

ha=4000.103m

hp = 400 - 103