Signa R = 0.15 m $m_1 = 24 \text{ kg}$ $m_2 = 0.2$ $m_3 = 0.2$ $m_{2,max} = ?$ $T - m_{2}p = 0 \Rightarrow T = m_{2}q$ $F + p_{2} - T = 0 \Rightarrow F = m_{2}q - p_{3}$ $\pi F + \pi T - R p_{3} = 0$

=> 2 m2g - 2 fes + 2 m2g - R fes = 0

fer = 2 r m2g < us N = us m, g

 $m_2 \leq \frac{M_2 m_1 (3C410)}{27} = 8.4 \text{ kg}$

$$F^* = m_2^* f - fer = m_2^* f - \frac{2r}{r+r} m_2^* g =$$

=
$$m_{\chi}^{*} \rho \left(\frac{R-2}{R+2} \right) = 35.3 \text{ N}$$

$$\begin{cases}
F + \int_{\Omega} = m_1 \alpha_{CH} & \Rightarrow \int_{\Omega} = m_1 \alpha_{CH} - F \\
7 F - R \int_{\Omega} = \frac{2}{5} m_1 R^2 \alpha = \frac{2}{5} m_1 R \alpha_{CH} \\
\rho = \frac{2}{5} m_1 R \alpha_{CH} \\
\rho = \frac{2}{5} m_1 R \alpha_{CH} \\
\alpha = \frac{2}{5} m_1 R \alpha_{CH}
\end{cases}$$

$$f_{ex} = \frac{5(x+R)F - 7RF}{7R} = \frac{F}{7R} (5x-2R) \le \mu_{2} m_{1}g$$

$$\frac{L(t_0^-) = L(t_0^+)}{y_{cn}} = \frac{H_2^2 + H_3}{2} = \frac{H_2^2 + \frac{H}3}{3} = \frac{5}{8} = \frac{5}{8}$$

$$\frac{3}{8} e m s = \left(\frac{1}{12} H e^2 + \frac{1}{64} H e^2 \right) \omega$$

$$\frac{3}{8} e m s = \left(\frac{1}{12} H e^2 + \frac{1}{64} H e^2 + \frac{25}{64} m e^2 \right) \omega$$

$$\frac{3}{8}$$
 em $5 = \left[\left(\frac{1}{12} \pi e^2 + \pi \frac{e^4}{64} \right) + m \frac{9}{64} e^2 \right] \infty$

$$\Rightarrow \omega = \frac{6}{7} \cdot \frac{5}{e} = \frac{2 \cdot nod}{n}$$

$$\nabla_{A} = \nabla + \frac{3}{8} \ell \omega$$

$$\nabla_{A} = \nabla_{CR} + \frac{3}{8} \ell \omega$$

$$\nabla_{A} = \nabla_{CR} + \frac{3}{8} \ell \omega$$

$$\overline{\mathcal{P}} = \operatorname{Cont} = \operatorname{min}$$

$$= (m+H) \overline{\operatorname{NcH}}$$

$$\Rightarrow \overline{\operatorname{NcH}} = \frac{m}{m+H} \overline{\operatorname{NcH}}$$

$$\overline{S} = \overline{N} + \overline{S}_0 + \overline{\omega} \times \overline{R}'$$

$$\overline{N}_{A/B} = \overline{N}_{CH} + \overline{\omega} \times \overline{R}'_{A/B}$$

$$\bar{\nabla}_{A} = \bar{\nabla}_{CM} \bar{U}_{N} + \omega \frac{3}{8} \bar{U}_{N}$$

$$\Rightarrow \bar{\nabla}_{A} = \frac{\bar{\nabla}_{CM} + \frac{3}{8} \bar{\nabla}_{CM} \cdot \frac{3}{8} \mathcal{X}_{CM} = \frac{7+9}{28} \bar{\nabla}_{CM} = \frac{4}{7} \bar{\nabla}_{CM}$$

$$= 20.4 \text{ m/s}$$

$$\sqrt{8} = -\frac{2}{7}\sqrt{5} = -9.2 \text{ m/s}$$

$$E_{k} = \frac{1}{2} I_{ch} \omega^{2}$$

$$E_{k} = \frac{1}{2} I_{ch} \omega^{2}$$

$$E_{k} = \frac{1}{2} (m+n) N_{ch} + \frac{1}{2} I_{ch} \omega^{2} + \frac{1}{2} I_{ch} \omega^{2}$$

$$E_{k} = \frac{1}{2} (m+n) N_{ch} + \frac{1}{2} I_{ch} \omega^{2}$$