Paoblina 1

. P1 = m1 Vol = m Vol

· Pz = mz Vo j · Pz = my Vo j con a con sinección que survere Pi+Pr

南中之中了= 0 = 1 = -(前中元)

 $|\vec{p}_{3}| = \sqrt{|\vec{p}_{1}|^{2} + |\vec{p}_{2}|^{2}} = \sqrt{\sqrt{(m_{1})^{2} + m_{2}^{2}}}$ $m_{3} = \sqrt{(m_{1})^{2} + m_{2}^{2}}$

 $m_1 + m_2 + m_3 = an = 7 \frac{m_1}{4} + an_2 + an_3 = an = 7 \frac{m_2 + an_3}{4} = \frac{3m_2}{4}$

3m - m2 = / (m)2 + m2 = / (3m - m2)2 - (m)2 + m72

 $\frac{9m^2}{76} - \frac{3mm}{2}m_2 + m_2^2 - \frac{m^2}{16} + m_2^2 = \frac{9m^2}{16} - \frac{m^2}{16} - \frac{3m}{16} = \frac{3mm}{16} = \frac{3mm^2}{16} = \frac{3mm}{2} = \frac{8m^2/16}{16} = \frac{8m}{3} = \frac{2}{3}$

 $M_3 = \frac{301}{4} - \frac{m}{3} = \frac{9m - 4m}{12} = \frac{5m}{72}$

my = m

M3= 5m

MBAL = 0,04 kg

ProBlam 3

$$(m + m) V_f = mVi \implies V_f = \frac{m \sqrt{2gH}}{1001 + 1.5m} = \frac{\sqrt{2gH}}{2.5} = \frac{2}{5} \sqrt{2gH}$$

$$\frac{1}{2} (M+m) V_{4}^{2} = (M+m)gh = 7 h = \frac{V_{4}^{2}}{2g} = (\frac{3}{5} \frac{V_{2gH}}{2g})^{2} = \frac{4}{2g} \frac{2gh}{2g} = \frac{8}{50} H = \frac{4}{25} H$$

Ki=1MV==MgH

R:

Altura maxima: h= 4 +

Eureagia Perbida: NE = 3 Mg H

Programa 4)

TINIER JOHNING

MASA7: m, velociono unical un= + Vo

MASA 2: M = 2 m, VolceMA , vicial vz = -Vor

$$-V_0 = \frac{m - 2m}{3m} V_0 + \frac{27m}{3m} \left(-V_{0x}\right) = -\frac{1}{3} V_0 - \frac{4}{3} V_{0x}$$

$$\sqrt{2} = \frac{2m}{3m} \sqrt{0} + \frac{2an-m}{3m} \left(-\sqrt{0}x\right) = \frac{2}{3} \sqrt{0} + \frac{1}{3} \left(-\frac{1}{2}\sqrt{0}\right) = \frac{2}{3} \sqrt{0} - \frac{1}{6} \sqrt{0} = \frac{4}{6} \sqrt{0} - \frac{1}{6} \sqrt{0} = \frac{3}{6} \sqrt{0} = \frac{4}{2} \sqrt{2gL}$$

R:

b) Velacion DE M lons et choque: 1/2= 2/29L