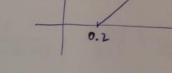
## תשובות מתכונת 2014 במכניקה

1) 
$$\frac{1}{16}$$
  $\frac{1}{16}$   $\frac{1}{1$ 

oflin aryly can ainly

(2) 
$$\frac{ca}{ct} = 1.67 \frac{m/s^2}{N} = 1.67 \frac{kg}{kg}$$



ola bi e: e n'uy, i sot e: e vac es crisa e s'rea. E ly ei en'uy ra sir x unu >n t:  $a = \frac{1}{2} = (a=0)$  er a = 0 = 0

$$\frac{\sqrt{1}}{\sqrt{2}}$$
  $\rightarrow \oplus$ 

$$2$$
 (1)  $J_2 = \Delta P_2 = m_2 \Delta V_2 = m_2 (u_2 - v_2)$   
 $0 < \Delta V_2$  pl, while marina we suggest 2 alor  
,  $J_2 > 0$  mile

$$\frac{2}{2}$$
 (1)  $m_2 = \frac{J}{0.24} = \frac{0.241}{-0.04 - (0.36)} = \frac{0.241}{0.24} = \frac{0.892}{0.24} kg$ 

(2) 
$$|J_1| = |J_2|$$
 picho & 3 pin of  
 $m_1 |\Delta V_1| = m_2 |\Delta V_2|$   
 $m_1 < m_2$  pol ,  $|\delta V_1| > |\delta V_2| - e$  rough them

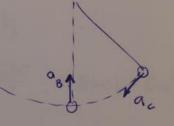
$$\frac{3}{100}$$
 . (p.C. 1)  $|F_1| = |F_2| + |F_3|$  by  $|F_3| = |F_3| + |F_3|$ 

 $\frac{2}{2} = \frac{E_{K_{A}} + V_{G_{A}}}{V_{B_{A}}} = \frac{E_{K_{B}} + V_{G_{B}}}{V_{B_{A}}} = \frac{M_{g}(h_{A} - h_{B})}{M_{g}(h_{A} - h_{B})} = \frac{M_{g}(1 - cos \Theta_{o})}{V_{B_{A}}} = \sqrt{2g(1 - as \Theta_{o})}$ 

द्रप्राहत ही भूगी ल्लागर:

मा प्राहत ही भूग प्रमाण प्राहत का प्रमाण हो।

मा प्राहत के प्रमाण परस्य हमार्थ (तेल प्रमाल).



 $\frac{3}{T} - Mg = M \frac{V_B^4}{R}$   $T = Mg + M \frac{V_B^4}{R} = Mg + M \frac{29l(1-\cos 6\omega)}{l}$   $= Mg + 2Mg(1+\cos 6\omega) = 3Mg - 2Mg\cos 6\omega$   $= Mg(3-2\cos 6\omega)$ 

Wy = DE Mech = DUG = Mgl (1-cos Pe) - Mgl (1-W = Mgl (cos ed-cos B) Meri recice. Color sine configuration of the Ray of the Rains of the R

(2)  $623710^{10} = \frac{3.5-1}{(2.8-0.8)\times10^{14}} = 1.25\times10^{14}$   $GM = 1.25\times10^{14}$   $M = \frac{1.25\times10^{14}}{6.64\times10^{-11}} = \frac{1.874\times10^{24}}{6}$   $M = \frac{1.25\times10^{14}}{6.64\times10^{-11}} = \frac{1.874\times10^{24}}{6}$ 

 $\frac{2}{V} = \frac{mV^{2}}{r^{2}} = \frac{mV^{2}}{r} \implies V = \sqrt{\frac{GM}{r}}; r = 5000 \, k_{m} = 500 \, k_{m} = 500$ 

(2)  $\left(\frac{T_1}{T_1}\right)^{\perp} = \left(\frac{Y_1}{Y_1}\right)^{3} = 2^{3}$   $\Rightarrow T_2 = \sqrt{8} T_1$