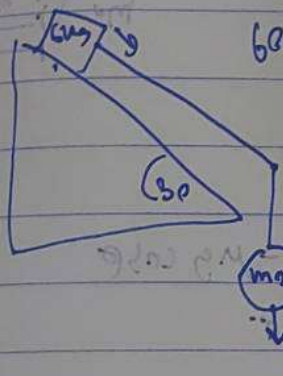
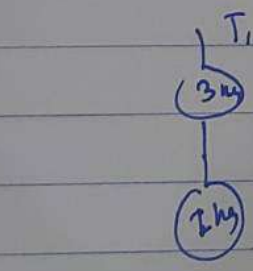
$\frac{1}{2}mv^2 + \frac{3}{10}mgH < mgH$

$\frac{7}{5}mgH < \frac{1}{2}mv^2$

$v = \sqrt{\frac{7}{5}gH} = 1.18\sqrt{gH}$

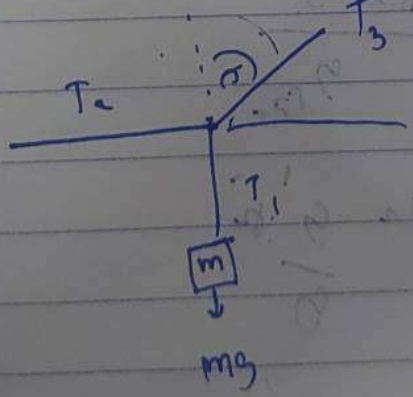


$60\sin 30 = 30$



$T_1 = 5(12) = 60$

$T_2 = 2(12) = 24$



$T_3\cos\theta = mg$

$T_3\sin\theta = T_2$

$T_3 = \frac{mg}{\cos\theta}$

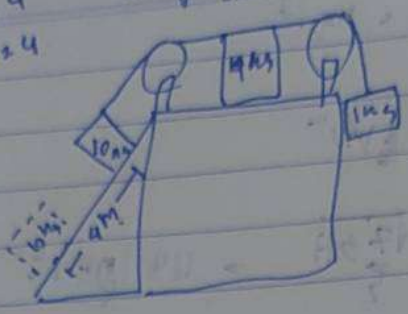
$T_2 = mg\tan\theta$

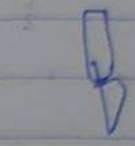
$mgh = \frac{1}{2}mv^2$

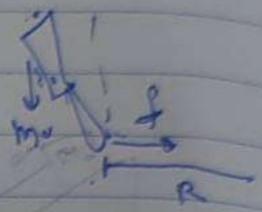
$v = \frac{s}{t}$ $\quad h = \frac{1}{2}gt^2$ $\quad t = \sqrt{\frac{2h}{g}}$

$v = \frac{L}{t}$ $\quad \mu_s = 4$ $\quad \Delta v = 4$

$v = L\sqrt{\frac{g}{2h}}$







$v^2 = u^2 + 2as$

$16 = 0 + 2(a)(4)$

$a = 2\ m/s^2$

$\Sigma F = ma$ $\quad a = g\sin\theta - \mu g\cos\theta$

$g = 10$

$g = \frac{GM}{R^2}$

$g_{Earth} = \frac{GM_{Earth}}{R^2_{Earth}}$

$mg_M = \frac{mGM_{Earth}}{R^2_{Earth}}$

$g_{Earth} = \frac{GM_{Earth}}{R^2_{Earth}}$

$mg_M = \frac{mGM_{Earth}g'}{g_{Earth}}$

$mg_M = \frac{g' \cdot R^2}{g}$

100.3 °C

333 kJ

33.3 kJ

$\frac{\sin\theta_1}{\sin\theta_2} = \frac{n_2}{n_1}$

$\frac{\sin 60}{\sin 30} = \frac{n_2}{1}$

$\frac{\sin 60}{\sin 45} = \frac{n_3}{1}$

$\frac{n_2}{n_3} = \frac{\sin 45}{\sin 30}$

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

$v = f\lambda$

$375 = 250\lambda$

$\lambda = 1.5$

$2\lambda =$

$3 =$

4.2 kJ / kg

0.42

$100 = \frac{1}{2}(10)(t^2)$

$t^2 = 20$

$t = \sqrt{20} =$ 4.47

$\theta = 29$

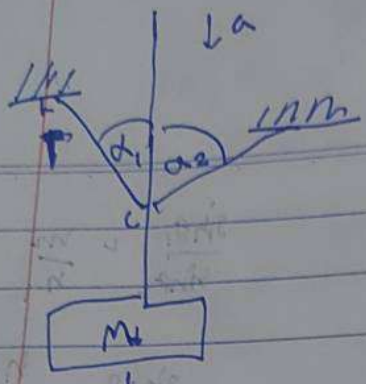
5 Hz

$\lambda = f$

0.5 m

$331 + (0.6)(20)$

343



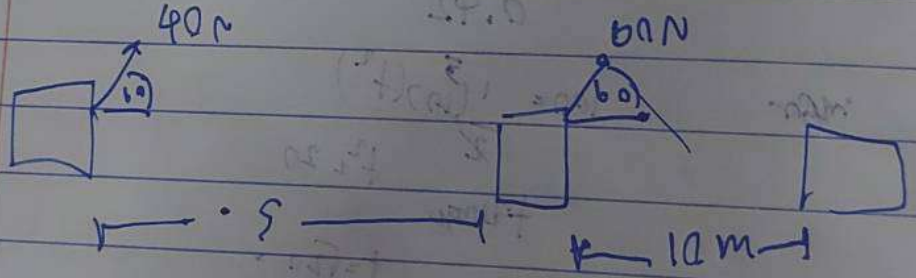
$mg = T_1 \cos\alpha_1 + T_2 \cos\alpha_2$

$T_2 \sin\alpha_2 = T_1 \sin\theta$

$T_2 = T_1 \frac{\sin\alpha_1}{\sin\alpha_2}$

$mg = T_1 (\cos\alpha_1 + \frac{\cos\alpha_2 \cdot \sin\alpha_1}{\sin\alpha_2}$

$T_1 = \frac{mg}{\cos\alpha_1 + \tan\alpha_2 \sin\alpha_1}$



20 J

300 J

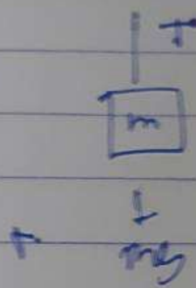
60 m

$m_1 a = m_2 a$

$10 m_1 = 24 m_2$

$\frac{m_1}{m_2} = 2.4$

[illegible] มวล m [illegible]



$T = mg$

$\frac{T}{m} = m/s^2$

$g = \frac{Gm}{R^2}$

4

K @θ

- จีน
- อินเดีย ฮั่น

$\cancel{m}gh = \frac{1}{2}\cancel{m}v^2$

$gh = \frac{1}{2}mv^2$

$4 =$

$8 = v^2$

$v = 2\sqrt{2}$

$= 2.8\ldots$

$1 = \frac{1}{2}mv^2$

$v = \sqrt{2}$

$v = 1.4$