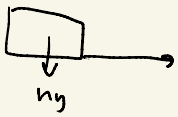
$\Sigma F = ma$

$=$



$s = 30$ m.

1.

$a = 6$ $a = 4$ $a = 2$ $a = 0$

$s = 1, 2$ $s = 3$ $s = 4$ $s = 5$

$\Sigma F = ma$

$W = F \cdot s$

$= 10\left[6 + 12 + 12 + 6\right] = 360$

$Ek_1 = Ek_2$

$mgH < \frac{30}{100} mgh$

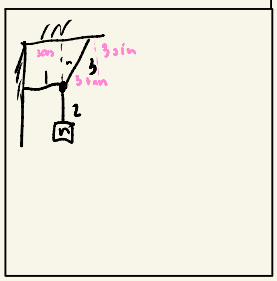
$v^2 = u^2 + 2gH$

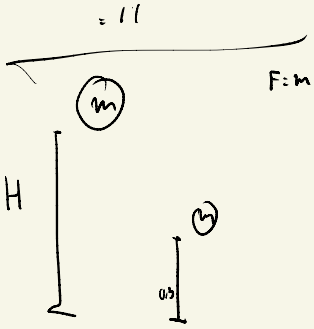
$v = \sqrt{2gH} =$

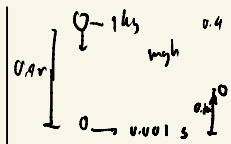
$v^2 = 2gH + \frac{30}{100} 2gH$

$= \frac{30}{100} 2gH$

$= \sqrt{0.3(2gH)}$







$\Sigma F = ma$

$s = ut + \frac{1}{2}at^2$

$0.4 = 0 + \frac{1}{2}(10)(2 \times 10^{-5})$

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

$v^2 = 0 + 2(10)(0.4)$

$v^2 = 8$

$v = 2\sqrt{2}$

≈ 2.4

$s = ut + \frac{1}{2}at^2$

$m = 2\sqrt{2}t + 5t^2$

$v^2 = 4 + 2(-10)(0.4)$

$= 8 - 2$

$v = \sqrt{6}$

$\Sigma F = 0$

$P_1 = F_2$

$F \cos 30 =$

$60 \cos 30$

$\frac{3}{2}\sqrt{3} = 40$

$3\sqrt{3} = 4$

$v = 331 + 0.6(24)$

$= 331 + 12$

$v = 343$

$s = ut + \frac{1}{2}at^2$

$100 = 343$

$2.9 = vt$

2.00

$F = \frac{GMm}{r^2}$

$= G \frac{m}{R^2}$

$\frac{Gm \cdot 2m}{4R^2} = \frac{Gmm'}{2R^2}$

$\frac{1}{r} = \frac{}{2R^2}$

$r = \frac{2R^2}{\sigma}$

$\Delta T = 2\pi\sqrt{\frac{m}{k}} - 2\pi\sqrt{\frac{1}{k}}$

$T = 2\pi\sqrt{\frac{m}{k}}$ $2\pi\left(\sqrt{\frac{m}{k}} - \sqrt{\frac{1}{k}}\right)$

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

100 $\frac{12}{331 + 20(0.6)}$

343

$s = vt$ $s = Vt$

$\frac{100}{343}$ $\frac{29}{100} = \frac{1}{343}$ $100 =$

$343\overline{)100.0}$ 29×343

686

3140

3087

530

$343 = 0.1 \text{ wt}$

$t = 29.9$

$\frac{1}{n_0 \cos\theta_1} = \frac{1}{n_0 \cos\theta_2}$

$\frac{\cos\theta_2}{\cos\theta_1} = \frac{n_0}{n_2}$

$\frac{\sqrt{2}}{\sqrt{3}} =$

$\frac{\sqrt{2}}{\sqrt{3}} =$

$n_E \cos\theta_2 = n_E \cos\theta_1$

$n_0 \cos\theta_1$ $n_W \cos\theta$

$n_E \cos\theta_W = n_E \cos\theta_0$

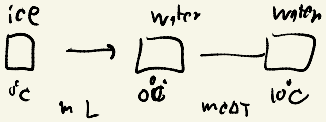
$\cos\theta \quad \cos 45$

$\frac{n_E}{n_W} = \frac{\cos\theta}{\cos 30}$

$= \frac{\sqrt{6}}{3}$

$= \frac{1}{}$

$= \frac{\sqrt{3}}{2} = \frac{\sqrt{3}}{\sqrt{3}}$



$0.1(333.33) + (0.1)(4200)(10)$