

$$EF: ma$$

$$\boxed{9 \text{ kg}}$$

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$$v: 10 \text{ m/s}$$

$$t: 3$$

$$u: 0$$

$$a: a$$

$$v: u + at$$

$$10 = 0 + a(3)$$

$$a = \frac{10}{3}$$

$$EF: ma$$

$$Et = \frac{3}{a} \left( \frac{10}{3} \right) = 30$$

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$$W: FS$$

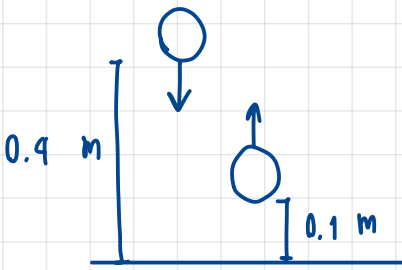
$$W: (ma)s$$

$$= m(a s)$$

$$(10)(6) 2$$

$$\textcircled{120}$$

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$mgh$

$$1(9.8)(0.4) = \frac{1}{2}(1)(V^2) \quad 3.92$$

$$V = 2.8$$

$$1(9.8)(0.1) = \frac{1}{2}(1)V^2 = 0.98$$

$$V = 1.4$$

$$\frac{0.98}{3.92} \times 100 = 25\% \quad \text{indo}$$

$$\text{indo} \quad 75\%$$

$$F = ma$$

$$u = 0$$

$$s = 0.4$$

$$F = 1(2.45)$$

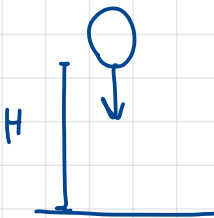
$$V = 1.4$$

$$= 2.45 \text{ N}$$

$$a = ?$$

$$V^2 = u^2 + 2as$$

$$2.45 = \frac{1.96}{2(0.4)} \cdot a$$

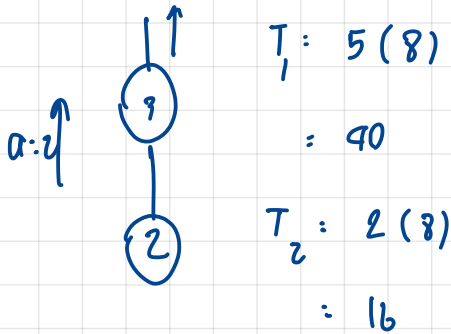
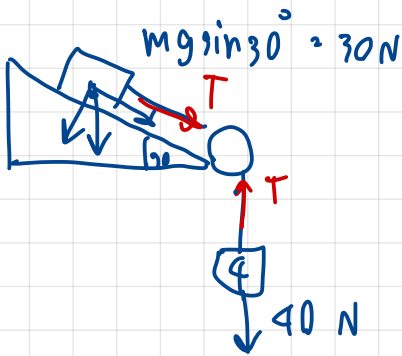


$$mgh = \frac{1}{2}mv^2 \quad \text{indo}$$

$$\frac{70}{100}mgh = \frac{1}{2}mv^2 \quad \text{indo}$$

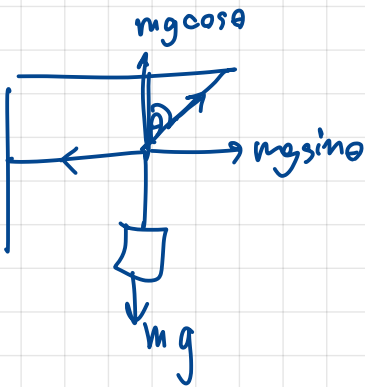
$$v_{\text{indo}}^2 = 1.4gh$$

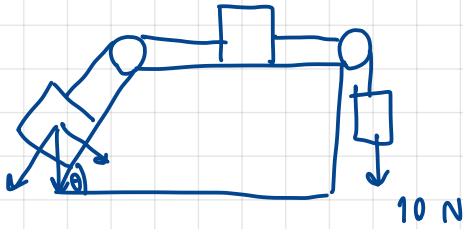
$$v_{\text{indo}} = 1.18(gH)^{\frac{1}{2}}$$



$40 - 16 = 24$

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$$f = \mu N$$

$$\sum F: mg \cos \theta - f$$

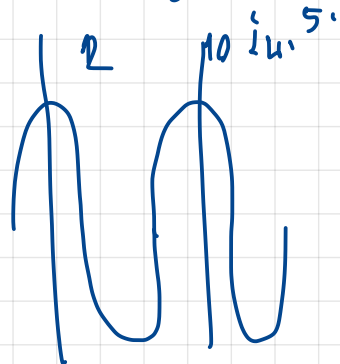
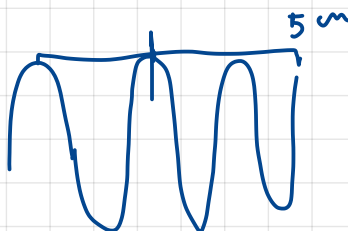
$$10(z) = mg \cos \theta - f$$

Q:

$$33.3 \text{ kJ}$$

$$4200 \text{ J}$$

$$n_1 \sin 30 = n_2 \sin 45$$



$$v_t = v_0 + 0.6t$$

$$\begin{aligned} v_t &= 331 + 0.6(90) \\ &= 349 \end{aligned}$$

0.2865

$$s = 100$$

$$s = vt$$

$$v = 0 \quad t \quad h = 90$$

$$s = 100$$

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

$$100 = \frac{1}{2} \cdot 5 \cdot t^2$$

$$20 = t^2$$

$$\frac{n_0}{n_1} = \frac{n_1}{n}$$

$$n_0 n = n_1^2$$

$$s = vt$$

$$\frac{L}{t} = u$$

$$L \times \left( \frac{g}{2h} \right)^{\frac{1}{2}}$$

$$u = 0$$

$$t = t$$

$$s = h$$

$$a = g$$

$$h = + \frac{1}{2} g t^2$$

$$\sqrt{\frac{2h}{g}} = t$$