

دکتر علی بابا

فصل ۱۰، ۴، ۲، ۱۰

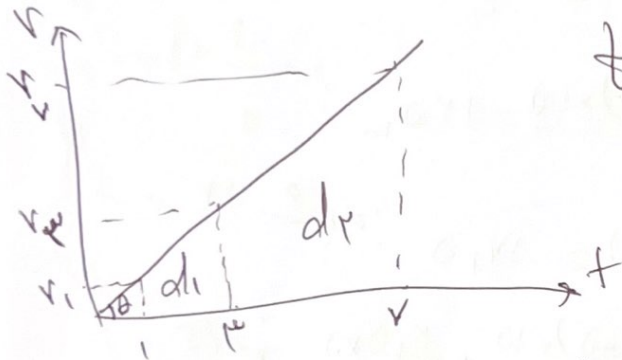
$$A \rightarrow \frac{A}{z} \rightarrow \frac{A}{z} + \frac{-\beta}{z} + \frac{\beta}{z} + \frac{A-\beta}{z-\gamma}$$

۴۷
۴۸

$$z = \infty$$

$$W = -\Delta u = -q \Delta V \rightarrow r \cdot x \cdot r = \partial x \cdot r (v_B - z)$$

$$\rightarrow \epsilon = v_B - z \rightarrow v_B = 1.$$



$$\frac{d}{t} = \frac{v}{r} = \frac{v}{v} = 1$$

$$d_1 = \frac{(v_1 + v_2) \times r}{r} = r.$$

$$\left. \begin{aligned} v_1 + v_2 &= r \\ v_1 &= \infty \\ v_2 &= 10 \\ v_3 &= 30 \end{aligned} \right\}$$

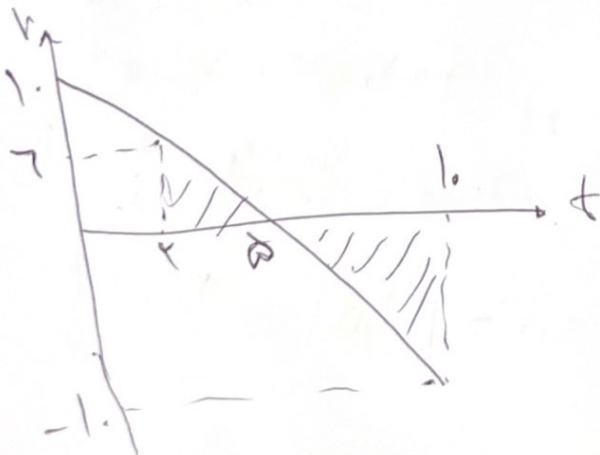
$$\rightarrow d_1 = \frac{(30 + 10) \times r}{r} = 1.$$

$$x = \frac{1}{2} a t^2 + v_0 t + x_0 \rightarrow 0 = \frac{1}{2} a \times r^2 + 1 \times r + r$$

$$v = a t + v_0 \rightarrow 0 = 0 a + v_0$$

$$2a + v_0 + v_0 = 0$$

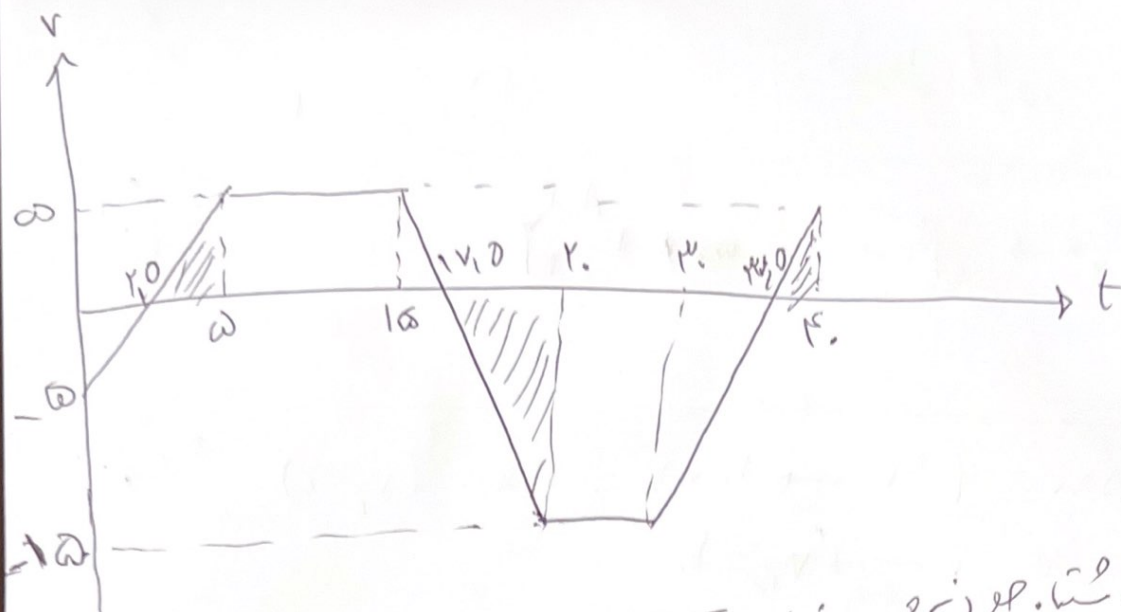
$$a = -r, v_0 = 1.$$



$$d = \frac{r \times t^2}{r} + \frac{0 \times t}{r} = r t$$

$$\bar{d} = \frac{d}{\Delta t} = \frac{r t}{1-r} = \frac{1 \times r}{r}$$

ت. ۵



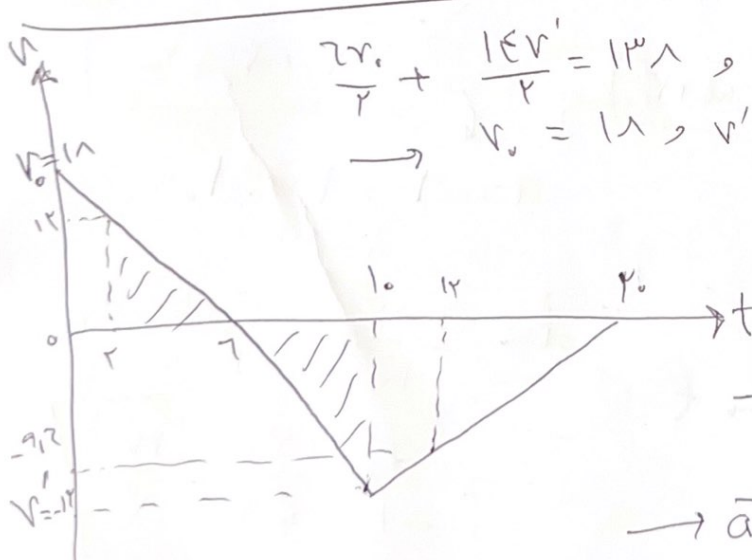
لرینه ۱ است. چون مجموع زمان عقاب با لرینه ۱۲۵ s: $v_{10} + v_{10} + v_{10} = 125$

لرینه ۲ است: $\Delta x = \Delta x_1 + \frac{\Delta x \Delta t}{T} - \frac{(v_0 + 0) \times \Delta t}{2} = 125 \text{ m}$

لرینه ۳ است: $17, \Delta - v_1 \Delta + v_1 \Delta = 17, \Delta$

لرینه ۴ است: $d = \frac{\Delta \times v_{10}}{2} + \frac{(10 + 1) \times \Delta}{2} + \frac{(v_0 + 0) \times 10}{2} + \frac{v_{10} \times \Delta}{2}$

$\rightarrow d = 222, \Delta \text{ m}$ *دسته عقاب با لرینه*



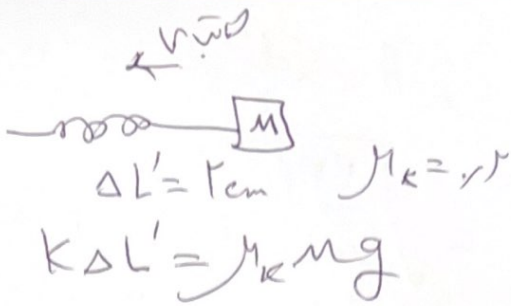
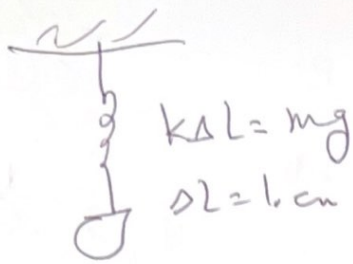
$\frac{2v_0}{2} + \frac{1 \times v'}{2} = 13,8$ و $\frac{v'}{5} = \frac{v_0}{7}$
 $\rightarrow v_0 = 12, v' = 12$

$a_1 = -3, a_c = 1,2$

$\rightarrow v_{12} = 12, v_{14} = -9,7$

$\rightarrow \bar{a} = \frac{v_{12} - v_{14}}{12 - 2} = \frac{-9,7 - 12}{10}$

$\rightarrow \bar{a} = |-2,17| = 2,17$



$$k = k \rightarrow \frac{mg}{\Delta L} = \frac{\mu_k mg}{\Delta L'} \rightarrow \frac{M}{m} = \frac{\Delta L'}{\Delta L \cdot \mu_k} = \frac{1}{1.5 \times 1/2} = 1$$

$$p = at^r + bt + c \rightarrow \begin{cases} 0 = 1a + 2b + 1c \\ 0 = 17a + 17b + 1c \end{cases} \Rightarrow p = 17t^2 - 17t + 7$$

$$\rightarrow \begin{cases} p_1 = 17 - 17 + 7 = -3 \\ p_2 = 0 - 17 + 7 = -10 \end{cases} \rightarrow \tau F = \frac{\Delta p}{\Delta t} = \frac{7 - (-10)}{2 - 1} = 17$$

$$a = \frac{v + v_0}{t} = \frac{17 + 0}{1} = 17$$

$$F_1 - f_k = ma \rightarrow 17 - f_k = 17 \times 1 \rightarrow f_k = 0$$

$$N - mg - F_f = 0 \rightarrow N = 17 + 0 = 17$$

$$R = \sqrt{f_k^2 + N^2} = \sqrt{0^2 + 17^2} = 17$$

$$T = \frac{\Delta t}{n} = \frac{17}{1} = 17 = \tau_n \sqrt{\frac{L}{g}} \xrightarrow{g=17} L = 17 \text{ cm}$$

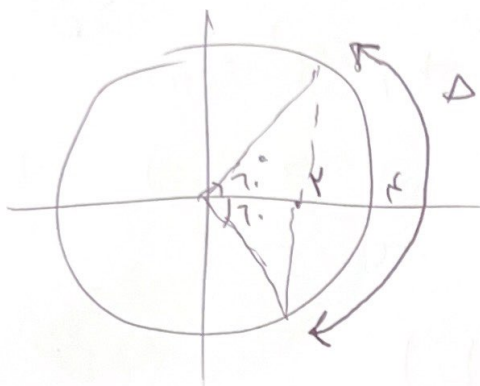
$$L' = 17 - 17 = 0 \text{ cm} \rightarrow T' = 17 \times 1/2 = 17 \rightarrow n' = \frac{\Delta t'}{T'} = \frac{17}{17} = 1$$

$$\rightarrow n' = 17$$

$$\lambda = \frac{v}{f} \quad , \quad A = \pi d^2 \quad , \quad \mu = \mu \quad , \quad f = f$$

$$v = \sqrt{\frac{R}{\rho A}} = \sqrt{\frac{R \mu f}{v \mu \times \mu \times \frac{c \times l^{-1}}{\mu}}} = l_0 \quad \rightarrow \quad \lambda = \frac{v}{f} = \frac{l_0}{f}$$

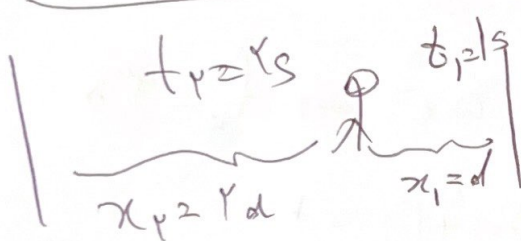
$$\frac{\lambda}{v} = \frac{1}{f} = \mu \quad \boxed{\mu \text{ cm}}$$



$$\Delta \phi = \frac{r \theta}{r} = \omega \Delta t = \frac{r \theta}{r} \times \Delta t$$

$$\Delta t = \dots \text{ s}$$

abhi tak

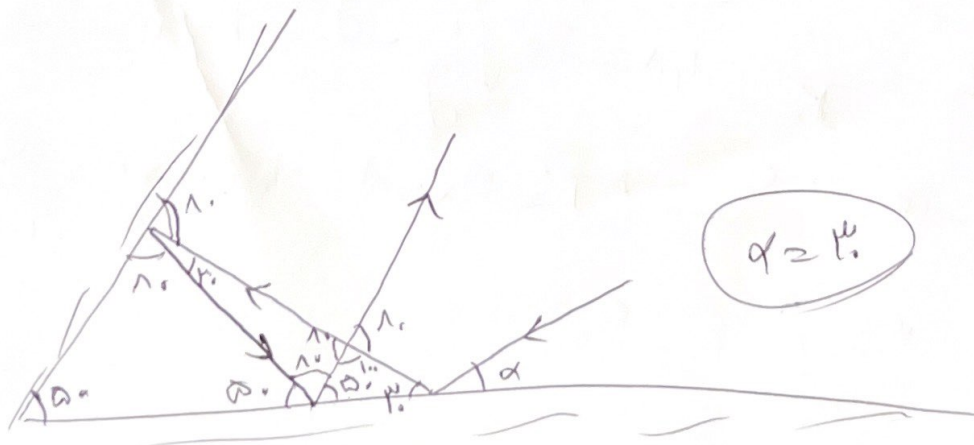


$$x = vt$$

$$t_2 = 2t_1 \rightarrow x_2 = 2x_1$$

$$\rightarrow x_1 + x_2 = d + 2d = 3d = 1.5 \lambda$$

$$\rightarrow \boxed{d = \frac{2}{3} \lambda = x_1}$$



$$\Delta = \mu$$

کتاب
فصل

$$\Delta E = \frac{-E_R}{n_1 r} \left(\frac{1}{n_1 r} - \frac{1}{n_2 r} \right) = \frac{hc}{\lambda}$$

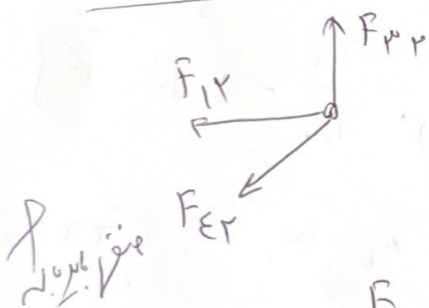
$$0 \rightarrow 2 \Rightarrow 13.12 \left(\frac{1}{12} - \frac{1}{20} \right) = \frac{1240}{\lambda} \rightarrow \lambda = 6.02$$

$$2 \rightarrow 1 \Rightarrow 13.12 \left(\frac{1}{1} - \frac{1}{2} \right) = \frac{1240}{\lambda'} \Rightarrow \lambda' = 164$$

$$\Rightarrow \lambda - \lambda' = 157.98$$

$$u' - u = v\theta \rightarrow \frac{1}{rc} (a' r - a r) = v\theta$$

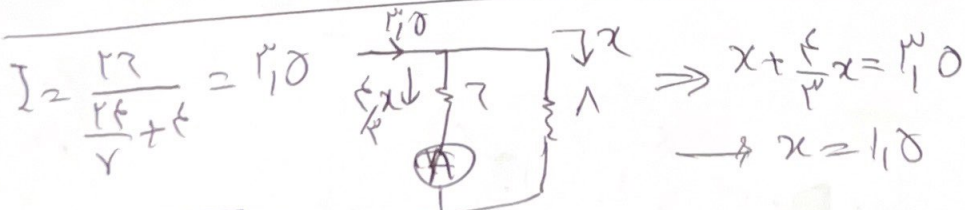
$$q' = \frac{v}{c} q \rightarrow \frac{1}{r \times c} \left(\frac{q}{c} - 1 \right) q r = v\theta \rightarrow q = 4$$



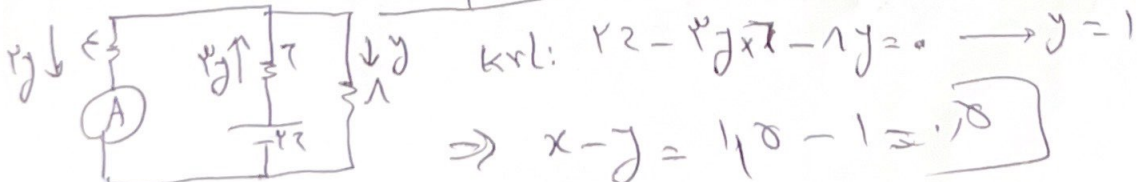
دکتر کونکور
موضوع: حرکت دایره‌ای
در فاصله 20 سانتی متر
از مرکز دایره

$$F_{yy} = F_{xy} \sin \theta \rightarrow \frac{20}{1.2} = \frac{q}{(1.6 \times 10^{-19}) r} \times \frac{\sqrt{r}}{r}$$

$$\rightarrow q = 1.6 \times 10^{-19} \rightarrow \text{کونکور}$$

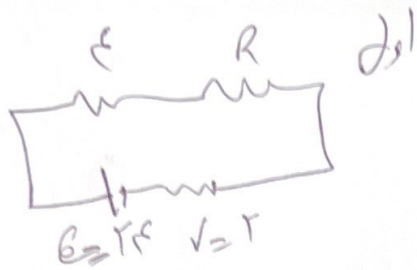


$$\Rightarrow x + \frac{1}{2}x = 10 \rightarrow x = 10$$



$$\text{KVL: } 2 - 2y \times 2 - 1y = 0 \rightarrow y = 1$$

$$\Rightarrow x - y = 10 - 1 = 9$$



۳۰/۱۰

وفاقی

$$I = \frac{E}{r+R}$$

$$P_1 = \sum_1 (E - I r) = \frac{E^2}{(r+R)^2} (E+R)$$

دست علیہ

$$\sum_r = \frac{E^2}{r + \frac{E R}{E+R}} = \frac{E^2 (E+R)}{1+rR}$$

$$\rightarrow P_r = \frac{E^2}{(1+rR)^2} (E+R)(ER)$$

کلیتہ

$$P_1 = \frac{E^2}{1+rR} P_r \rightarrow \frac{1}{(r+R)^2} = \frac{ER}{(1+rR)^2} \times \frac{E}{1} \rightarrow R = r$$

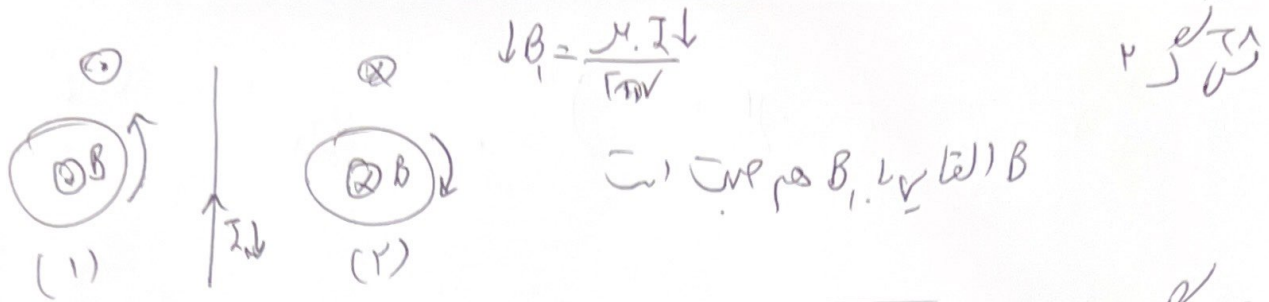
دو $I = \frac{E}{rR} = \frac{1r}{r} = 1$ $\rightarrow R = \infty$ $\rightarrow I = 1$

$V = R I = \infty \times 1 = \infty$ $\rightarrow V = E = 1r$

الفوب

$$\bar{E} = \frac{NBA}{\Delta t} = \frac{100 \times \infty \times 1 \times 1 \times 100 \times 1}{1} = 10000$$

۳۰/۱۰



$$\rho = \frac{m}{Ah} \rightarrow h = \frac{m}{\rho A}$$

$$\rho \cdot h = \frac{\rho r^2}{1 \times r^2} = 1 \text{ cm}$$

$$\rho \cdot h = \frac{\rho r^2}{1 \times r^2} = \rho r^2 \xrightarrow{\text{الارتفاع}} \rho \cdot h = \rho \cdot h_c$$

$$\rho r^2 \times 1 = 1 \times r^2 \times h_c \rightarrow h_c = 1 \text{ cm}$$

$$\rho \cdot h = \rho + 1 = 1 \text{ cm} \rightarrow \rho = \rho g h = 1 \times 2 \times 1 \times \frac{1}{1}$$

$$\rho = 1 \cdot 2 \cdot 1 = 2 \text{ g}$$

$$E_1 = E_r + R \rightarrow mgh_1 + \frac{1}{2} m v_1^2 = \frac{1}{2} m v_2^2 + R$$

$$\rightarrow 1 \times 2 \times 1 \times 10 + \frac{1}{2} \times 2 \times 10^2 = \frac{1}{2} \times 2 \times 10^2 + R$$

$$\rightarrow R = -2$$

$$\Sigma Q = 0 \rightarrow 0 \times r_1 \times (r_2 - 10) + 1 \times r_2 \times (r_2 - 0) + A(r_2 - 7) = 0 \rightarrow A = \frac{r_2^2}{r_2}$$

$$k = \frac{1}{r} m r^2 = \frac{1}{r} (r \dots) (r \dots) r^{-2} = r, r \times r.$$

Uevy

$$F = \frac{q}{\omega} \theta + r^2 \rightarrow \omega \theta = \frac{q}{\omega} \theta + r^2 \rightarrow k = r, r$$

Uevy

$$F = q r \theta \sin \theta \Rightarrow$$

$$F \times r^{-4} = B \times \omega \times r \times r^{-2} \rightarrow B = \dots$$

Uevy