

حل عوامل اسماكن فزيق ٢ : حركات سعر

الص) ثاب \rightarrow صفر

(ب) هضر \rightarrow حركات

Physics

$$n = vt + rt$$

(الد) \rightarrow

$$t_1, t_2 \rightarrow n_1 = v(t_1)^2 + \frac{1}{2}at_1^2 = 14m$$

$$t_2, t_3 \rightarrow n_2 = v(t_2)^2 + \frac{1}{2}at_2^2 = 22 + 14 = 36m$$

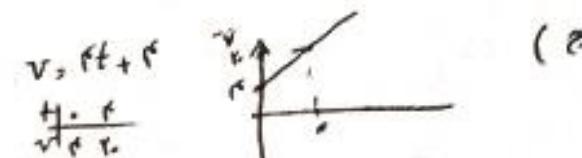
$$\bar{v} = \frac{\Delta n}{\Delta t} = \frac{n_2 - n_1}{t_2 - t_1} = \frac{36 - 14}{2 - 1} = \frac{22}{1} = 22 \text{ m/s}$$

$$\frac{1}{2}at^2 \rightarrow a = 4 \text{ m/s}^2$$

$$v = at = 4t$$

$$v = at + v_0 = 4t + v_0$$

$$t_1, t_2 \rightarrow v_0 = 4(t_1) + v_0 = 12 + 4 = 16 \text{ m/s}$$



Physics

$$\Delta t_1 = \frac{t_1}{r}$$

$$\Delta t_2 = \frac{t_2}{r}$$

$$v_1 = r \cdot \frac{t_1}{r} = \frac{16}{r} \text{ m/s}$$

$$\Delta n_1 = v_1 \Delta t_1 = \frac{16}{r} \cdot \frac{1}{r} = \frac{16}{r^2}$$

$$\Delta n_2 = v_2 \Delta t_2 = \frac{20}{r} \cdot \frac{1}{r} = \frac{20}{r^2}$$

$$\bar{v} = \frac{\Delta n_1 + \Delta n_2}{\Delta t_1 + \Delta t_2} = \frac{\frac{16}{r^2} + \frac{20}{r^2}}{1 + 1} = \frac{36}{2r^2} = \frac{18}{r} \text{ m/s}$$

$$\bar{v} = 18 \text{ m/s}$$

$$v = \frac{18 - 12}{1} = 6 \text{ m/s}$$

$$n = vt + n_0$$

$$n = 18t + 12$$

Physics

أولي

أولي

$$V_0 = 12 \text{ m/s}$$

$$V_0 = 12 \text{ m/s}$$

$$a = -4 \text{ m/s}^2$$

$$a = -4 \text{ m/s}^2$$

نهاية

$$n_2 = 22 \text{ m}$$

نهاية

$$n_1 = 14 \text{ m}$$

نهاية

$$n_0 = 12 \text{ m}$$

نهاية

$$n = 12 + 4t + \frac{1}{2}at^2$$

نهاية

$$n = 12 + 4t + 2t^2$$

نهاية

$$n = 12 + 4t + 2t^2$$

مشهود $n_1 = n_2$

$$-4t + 4t = 2t + 2t$$

$$2t^2 - 4t + 2t = 0$$

$$2t^2 - 2t = 0$$

$$(t - 2)(t - 1) = 0$$

$$\begin{cases} t_1 = 1 \\ t_2 = 2 \end{cases}$$

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Physics

$$n_0 = 12$$

$$n = \frac{1}{2}at^2 + V_0t + n_0$$

$$(t_1, t_2)$$

$$-10 = \frac{1}{2}a(t_2)^2 + V_0t_2 + 12$$

$$-10 = 12 + 4t_2 + 2t_2^2$$

$$12 + 4t_2 + 2t_2^2 = -10 \rightarrow 2t_2^2 + 4t_2 + 22 = 0$$

بررسية صواب صيغة حركة بخطين

$$v = at + v_0$$

صواب

$$\therefore fa + v_0 \rightarrow fa + v_0 = 0$$

$$\begin{cases} fa + v_0 = -1 \\ fa + v_0 = 0 \end{cases}$$

$$-fa = -1 \rightarrow a = 4 \text{ m/s}^2$$

$$n = 12t - 14t + 22$$

نهاية

نهاية

رسالة ملحوظة بحوث علمية

$$V_s = V_0 + \frac{V_0 - V_i}{t_f - t_i} t$$

$$\Delta u = \Delta v$$

$$V = V_0 + V_i t$$

$$V_{\text{final}} = V_0(0) \rightarrow a = \frac{V_0 - V_i}{t_f - t_i} = \frac{10 \text{ m/s}}{10 \text{ s}}$$

$$V = V_0 + V_i t = 10 + \frac{10}{10} t \text{ m/s}$$

physically

$$t_1 = 0 \text{ s} \quad u_1 = -10 \text{ m}$$

$$t_f = 10 \text{ s} \quad u_f = 0 \text{ m}$$

$$u = Vt + u_0 \quad \text{معادلة ملحوظة}$$

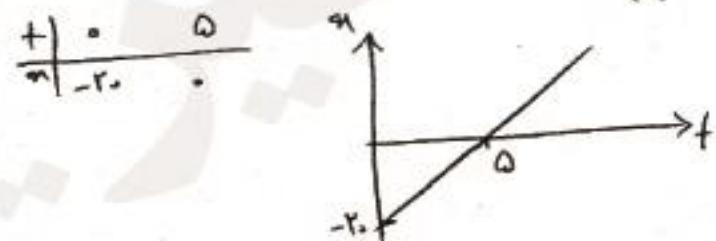
$$V = \frac{u_f - u_0}{t_f - t_i} = \frac{0 - (-10)}{10 - 0} = 1 \text{ m/s}$$

$$u = ft + u_0$$

$$(t, u) \rightarrow -10 = f(t) + u_0 \quad u_0 = -10 \text{ m}$$

$$u = ft - 10$$

$$\frac{+}{m} = \frac{0}{-10}$$



physically