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دكتور محمد الدلاحي تاليف يا زعيم دكتور C

$$y = -u^2 + bu + v$$

$$-\frac{\Delta}{\varepsilon a} = v + \frac{(b^2 - \varepsilon(-1)(v))}{\varepsilon} = v$$

$$b^2 + 1v = v \times \varepsilon \quad b^2 = 14 \rightarrow b = \pm \sqrt{14}$$

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$$\text{الف) } F(m) = u^2 + 2mu + v \quad u^2 = t$$

$$F(m) = t^2 + 2t + v = 0$$

$$\boxed{\text{نقطة التقاطع}}$$

$$t = \frac{-2 \pm \sqrt{2^2 - 4(1)(v)}}{2} = -1 \pm \sqrt{-1} \quad X$$

$$\text{ب) } F(m) = (\varepsilon - u^2)^2 - v(t - u^2) - 18$$

$$t - u^2 = 6$$

$$F(m) = t^2 - v(t) - 18 =$$

$$(t-d)(t+r) = 0$$

$$t - u^2 = d \quad -1 = u^2 \quad X$$

$$t - u^2 = -3 \quad u = u^2 \rightarrow u = \pm \sqrt{v}$$

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$$F_m^2 - 14m + m = 0$$

$$\alpha = 1 \quad \alpha + v = 3$$

$$v = 1\alpha + v = \frac{14}{\varepsilon} = 1$$

$$1\alpha = 1 \quad \alpha = 1$$

$$\rightarrow \frac{m}{\varepsilon} = 3 \quad m = 12$$

$$F_m^2 - 14m + v = 0 \quad \Delta > 0 \quad \checkmark$$

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$$F_m^2 - 9m + m - 1 = 0$$

$$1\alpha - \beta = \varepsilon \rightarrow 1\alpha - \varepsilon = \beta$$

$$\alpha + \beta = 1 \rightarrow \alpha + 1\alpha - \varepsilon = 1 \rightarrow 2\alpha = 1 + \varepsilon \quad \alpha = 1 \quad \beta = 0$$

$$\rightarrow \frac{m-1}{\mu} = 0 \quad m = 1$$

$$F_m^2 - 9m = 0 \quad \Delta > 0 \quad \checkmark$$

$$-mu^2 + 2mu + m^2 - 1 = 0$$

$$\Delta > 0 \quad p = 1$$

$$p = 1 \rightarrow \frac{m^2 - 1}{-m} = 1 \quad m^2 + m - 1 = 0 \quad (m+1)(m-1) = 0$$

$$m = 1 \rightarrow -u^2 + 2u - 1 \rightarrow \Delta > 0 \quad \checkmark \quad \boxed{m = 1}$$

$$m = -1 \rightarrow 1u^2 + \varepsilon u + 1 \quad \Delta = 0 \quad X$$

$$u^2 - mu + v = 0$$

$$\frac{\alpha\beta^2 = 1}{\alpha\beta = 1} = \beta = \frac{1}{\mu}, \quad \alpha = \frac{1}{\frac{1}{\mu}} = \mu$$

$$\varepsilon = m = \frac{1}{\varepsilon} + \frac{1}{\mu} = \frac{1\mu + 1}{1\mu} = \frac{1\mu}{1\mu}$$

$$\Delta > 0 \rightarrow u^2 - \frac{\varepsilon}{1\mu} + 1 \quad \checkmark$$

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$$n^r - r_{n+m} = 0 \quad \alpha \quad r_{\alpha}$$

$$S = r_{\alpha} = r \quad \alpha = 1$$

$$p = m = r_{\alpha}^r = r \times 1 = r \rightarrow \boxed{m = r}$$

$$\Delta > 0 \rightarrow n^r - r_{n+r} \checkmark$$

$$n^r - v_{n+r} = 0$$

$$\alpha^r + r = v_{\alpha}$$

$$\alpha^r + \frac{1}{\alpha^r} = ? \quad \left(\alpha + \frac{r}{\alpha}\right)^r - r(r) \left(\alpha + \frac{r}{\alpha}\right)$$

$$\left(\frac{\alpha^r + r}{\alpha}\right)^r - 4 \left(\frac{\alpha^r + r}{\alpha}\right) \rightarrow \left(\frac{v_{\alpha}}{\alpha}\right)^r - 4 \left(\frac{v_{\alpha}}{\alpha}\right) =$$

$$v^r - 4rv = \boxed{r_{01}}$$

$$h(t) = -1.0t^r + \omega t$$

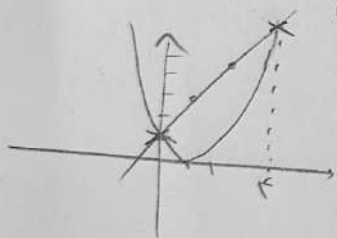
$$h_{max} = \frac{-\Delta}{2\epsilon\alpha} = \frac{1 - (\omega_0^r - f(-1.0)(0.0))}{+ \epsilon_0} = \frac{r_{\alpha}}{r_{\alpha}} = \boxed{4r_{\alpha}} \quad \max \{ \omega \}$$

$$0 = -1.0t^r + \omega t = 1.0t(-t + \omega) = 0$$

$\downarrow$ $\downarrow$
 t_0 ω

$\leftarrow$ زمان پرتاب زمان رسیدن به زمین

$$\text{الف) } (n-1)^r = r_{n+1}$$



$$\begin{array}{c|ccc} n & 0 & 1 & 2 \\ \hline 0 & 1 & 2 & 3 \end{array}$$

در دستگاه 1 و 2

بسیار دقت داشته باشید

$$\text{ب) } n^r + r_{n+1} = (n+r)^r$$



$$\begin{array}{c|ccc} n & 0 & 1 & 2 \\ \hline 0 & 1 & 2 & 3 \end{array}$$

در دستگاه 1 و 2

بسیار دقت داشته باشید