

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

$$\max_{u \in V} \frac{-\Delta}{\epsilon a} \rightarrow \frac{b^2 - \epsilon ac}{-4a} = V \rightarrow b^2 + 12 = 2A$$

$$b^2 = 14$$

$$b = \pm \sqrt{14} \checkmark$$

(۲)

$$u^2 + 2u^2 + r = 0$$

$$a = u^2 \rightarrow a^2 + 2a + r = 0$$

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$$(1 - u^2)^2 - 2(\epsilon - u^2) - 15 = 0$$

$$\epsilon - u^2 = t \rightarrow t^2 - 2t - 15 = 0$$

$$(t - 5)(t + 3) = 0$$

$$t \begin{cases} 5 \rightarrow \epsilon - u^2 = 5 \rightarrow u^2 = -1 \\ -3 \rightarrow \epsilon - u^2 = -3 \rightarrow u^2 = 3 \end{cases}$$

ریشه ها

$$u^2 = 3 \rightarrow u = \pm \sqrt{3} \checkmark$$

(۲)

$$\epsilon u^2 - 14u + m = 0$$

$$\alpha = \beta + r$$

$$\begin{cases} S = \alpha + \beta \\ S = -\frac{b}{a} \end{cases} \rightarrow \beta + \beta + r = \frac{14}{\epsilon} = 8$$

$$\rightarrow 2\beta = 8 - r \rightarrow \beta = 1$$

$$\rightarrow \alpha = 3 \left\{ P = \frac{c}{a} = \alpha\beta = r \right.$$

$$m = 12 \checkmark$$

$$\frac{m}{\epsilon} = r$$

$$m, \alpha, \beta = ?$$

$$12, 3, 1$$

$$2u^2 - 4u + m - 1 = 0$$

$$\alpha - \beta = r$$

$$\beta = 2\alpha - \epsilon \rightarrow \alpha + \beta = 2\alpha - \epsilon$$

$$m = ? \quad m - 1 = 0 \rightarrow m = 1 \checkmark$$

$$S = -\frac{b}{a} = \frac{4}{r} = 2 \rightarrow 2\alpha - \epsilon = 2$$

$$\alpha = 2 \left\{ \alpha/\beta = 2 \right.$$

$$\frac{c}{a} = 0 \rightarrow c = 0$$

$m - 1 = 0$
 $m = 1$

(۲)

$$-mu^2 + \epsilon u + m^2 - r = 0$$

$$\alpha = \frac{1}{\beta} \rightarrow \alpha\beta = 1 \quad P = \frac{c}{a} = 1$$

$$\rightarrow \frac{m^2 - r}{-m} = 1 \rightarrow m^2 - r = -m$$

$$m^2 + m - r = 0$$

$$m = \begin{cases} -2 \\ 1 \end{cases} \quad 33 \Delta = 0$$

$$m = ?$$

(۱, ۷۵)

$$u^r - m\alpha + r = 0$$

$$\alpha + \beta = \frac{-b}{a} = m$$

$$\rightarrow m = \frac{q}{\varepsilon} + \frac{\varepsilon}{r} = \frac{\varepsilon r}{1r} \checkmark$$

$$\alpha + \beta = \frac{c}{a} = r$$

$$\alpha + \beta = r \rightarrow \alpha + \beta + \beta = r \rightarrow r + \beta = r$$

$$m = ? \frac{\varepsilon r}{1r}$$

$$\beta = \frac{\varepsilon}{r} \rightarrow \alpha = \frac{\alpha + \beta}{\beta} = \frac{r}{\frac{\varepsilon}{r}} = \frac{q}{\varepsilon}$$

$$u^r - \varepsilon u + m = 0$$

$$\alpha = r\beta \quad \alpha + \beta = S = \frac{-b}{a} = \varepsilon$$

$$\alpha + \beta = \varepsilon\beta$$

$$\beta = 1 \rightarrow \alpha = r$$

$$m = ?$$

$$\alpha + \beta = r = \frac{c}{a} = \frac{m}{1}$$

$$\rightarrow m = r \checkmark$$

$$u^r - v u + r = 0 \rightarrow p = \frac{c}{a} = r \quad S = \frac{-b}{a} = v$$

$$\rightarrow \alpha + \beta = r \rightarrow \beta = \frac{r}{\alpha} \rightarrow \beta^r = \frac{1}{\alpha^r}$$

$$\alpha^r + \frac{1}{\alpha^r} = ?$$

$$\alpha^r + \beta^r = (\alpha + \beta)^r - r(\alpha + \beta)\alpha\beta = v^r - r \times v \times r = \varepsilon r \times v = r \cdot 1 \checkmark$$

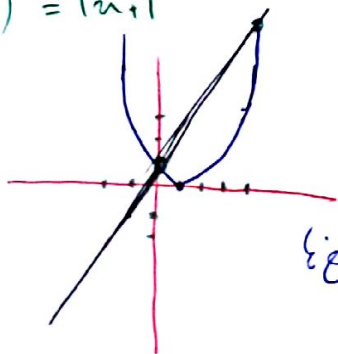
$$h(t) = -1 \cdot t^r + \omega \cdot t$$

$$\Delta = b^2 - 4ac$$

$$month = \frac{-\Delta}{\varepsilon a} = \frac{-(\omega \cdot r)}{-\varepsilon} = \frac{r\omega}{\varepsilon} = 4r, \omega_m \checkmark$$

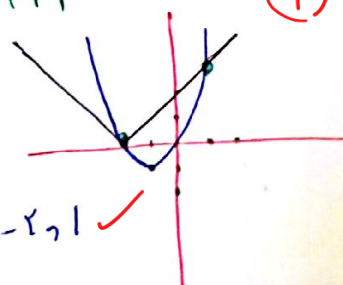
$$-1 \cdot t^r + \omega t = 0 \rightarrow 1 \cdot t(\omega - t) = 0 \rightarrow t = \omega \checkmark \rightarrow \text{تأخير}$$

$$(n-1)^r = r n + 1$$



$$\text{نقاط: } 0, 4 \checkmark$$

$$\frac{n^r + r n}{(n+1)^r - 1} = 1$$



$$\text{نقاط: } -1, 1 \checkmark$$