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تالیف شماره ۲۲

گروه دخترانه دهو A

زهره دهقانی

$$\alpha^2 - \omega \alpha + 2 = 0$$

$$\beta^2 - \omega \beta + 2 = 0 \rightarrow \beta^2 = \omega \beta - 2$$

$$\begin{aligned} \beta^3 &= \beta \times \beta^2 = \beta(\omega \beta - 2) = \omega \beta^2 - 2\beta = \omega(\omega \beta - 2) - 2\beta \\ &= 2\omega \beta - 10 \end{aligned}$$

$$\begin{aligned} \beta^4 &= \beta \times \beta^3 = \beta(2\omega \beta - 10) = 2\omega \beta^2 - 10\beta = 2\omega(\omega \beta - 2) - 10\beta \\ &= 10\omega \beta - 84 \end{aligned}$$

$$\begin{aligned} \beta^5 &= \beta \times \beta^4 = \beta(10\omega \beta - 84) = 10\omega \beta^2 - 84\beta = 10\omega(\omega \beta - 2) - 84\beta \\ &= 20\omega \beta - 210 \end{aligned}$$

$$\alpha + \beta = \omega \rightarrow \alpha = \omega - \beta$$

$$\begin{aligned} \text{حاصل} \rightarrow \varepsilon \alpha &= \varepsilon(\omega - \beta) = 20 - \varepsilon \beta \end{aligned}$$

مورد کسر:

$$\varepsilon \alpha + \beta^5 = (20 - \varepsilon \beta) + (20\omega \beta - 210) = 20\omega \beta - 190$$

$$\omega \beta^2 = \omega(\omega \beta - 2) = 2\omega \beta - 10$$

مخرج کسر:

$$\frac{20\omega \beta - 190}{2\omega \beta - 10} = \frac{10\omega(\omega \beta - 2)}{\omega(\omega \beta - 2)} = \frac{10\omega}{\omega} = 10$$

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$$f(x) = ax^2 + bx + c$$

$$x = \frac{3 + (-1)\omega}{2} = \frac{(1-\omega)}{2} = \frac{1}{\omega}$$

$$\omega_{\text{موج}} = \frac{\omega_{\text{موج}}}{2}$$

$$\omega_{\text{موج}} = 2 \times \frac{1}{\omega} = \frac{2}{\omega} \quad \text{جواب}$$

$$|r_1 - r_2| = \frac{\sqrt{\Delta}}{|a|} \Rightarrow \frac{\sqrt{b^2 - 4ac}}{|a|}$$

$$a = 1$$

$$b = 4k$$

$$c = \omega$$

$$|r_1 - r_2| = \sqrt{(4k)^2 - 4\omega} = \sqrt{16k^2 - 4\omega}$$

$$\sqrt{16k^2 - 4\omega} = \frac{4}{k}$$

$$16k^2 - 4\omega = \frac{16k^2}{k^2}$$

$$16k^2 - 4\omega = 16k^2$$

$$4\omega = 0 \Rightarrow \omega = 0 \Rightarrow k = 1$$

$$\left[\frac{4}{k} \right] = \left[\frac{4}{1} \right] = 4$$

چون y دو نقطه برابر است $\rightarrow$ قرینه اند

$$x = \frac{y + (-\omega)}{2} = -1$$

عرف مساحت = فاصله بین خط ϵp و خط y (مستوی)

$$\epsilon p = 1 \rightarrow p = \frac{1}{\epsilon}$$

$$(x+1)^2 = \epsilon p (y-k) = (y-k)$$

$$(x+1)^2 + k = 0 \rightarrow x^2 + 2x + (1+k) = 0$$

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

$$\alpha^2 + \beta^2 = \omega$$

$$\alpha^2 + \beta^2 = (\alpha + \beta)^2 - 2\alpha\beta$$

$$(0+1)^2 = y-k \rightarrow y = k+1 = -\frac{y}{2} + 1 = -\frac{1}{2}$$

$$\text{جواب } \left(-\frac{1}{2}, 0\right)$$

$$-x^2 + \omega x + m = 0$$

$$x^2 - \omega x - m = 0$$

$$f(\epsilon, \omega) = \epsilon, \omega^2 - \omega(\epsilon, \omega) - m = \epsilon, \epsilon\omega - \epsilon^2\omega - m$$

$$-\epsilon, \epsilon\omega - m > 0 \rightarrow m \leq -\epsilon^2 = -\epsilon, \epsilon\omega - m$$

$$\Delta = \epsilon\omega + \epsilon m > 0 \rightarrow m > -\epsilon, \epsilon\omega \rightarrow m > -\epsilon$$

$$-\epsilon \leq m \leq -\epsilon^2$$

اعداد صحیح: $-4, -\omega, -\epsilon, -\epsilon^2$

$\epsilon \epsilon$

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$$a = m \quad b = -1 \quad c = \omega m - 1$$

$$y_{min} = \frac{\varepsilon a c - b^2}{\varepsilon a} \rightarrow \frac{\varepsilon m (\omega m - 1) - 1 \varepsilon \varepsilon}{\varepsilon m} = \gamma$$

$$\frac{\gamma \omega m^2 - \varepsilon m - 1 \varepsilon \varepsilon}{\varepsilon m} = \gamma$$

$$\gamma \omega m^2 - \varepsilon m - 1 \varepsilon \varepsilon = \gamma \varepsilon m$$

$$\gamma \omega m^2 - 1 \gamma m - 1 \varepsilon \varepsilon = 0$$

$$\omega m^2 - \gamma m - \gamma \varepsilon = 0$$

$$m = \frac{\gamma \pm \sqrt{\gamma^2}}{2\omega} \rightarrow m = \gamma / m = -\frac{1 \gamma}{\omega}$$

$$n = \frac{-b}{\gamma a} = \frac{1 \gamma}{\gamma m} = \frac{\gamma}{m} = \frac{\gamma}{\gamma} = \gamma$$

$$n = \gamma$$

$$n^2 + \gamma(a+1)n + \gamma a - 1 = 0$$

$$\alpha + \beta = -\gamma(a+1), \quad \alpha \beta = \gamma a - 1$$

$$\alpha^2 = a \beta, \quad \beta = \frac{\alpha^2}{a} \quad \leftarrow \text{GIVEN (is)}$$

$$\alpha + \frac{\alpha^2}{a} = \gamma a - 1$$

$$\alpha^2 = a(\gamma a - 1) \quad \star$$

$$\alpha + \beta = -\gamma(a+1)$$

$$\alpha + \frac{\alpha^2}{a} = -\gamma(a+1) \quad \leftarrow \beta \text{ (is)}$$

$$\text{PITICO} \quad a\alpha + \alpha^2 = -\gamma a(a+1) \quad \leftarrow a) \text{ (is)}$$

$$\alpha(a + \alpha) = -\gamma a(a+1) \quad \star \star$$

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$$\alpha = \frac{-va(a+1)}{a+\alpha}$$

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$$(a = -1)$$

$$t = r^v$$

$$t^v - vt - \omega = 0$$

$$r^E - vr^v - \omega = 0$$

$$t = \frac{v \pm \sqrt{v^2 + 4\omega}}{v}$$

$$r = \pm \sqrt{\frac{v + \sqrt{v^2 + 4\omega}}{v}}$$

$$S=0 \cup \frac{v}{r} p^v$$

$$t^v = vt + \omega$$

$$\begin{aligned} r p^v &= r t^v = r(vt + \omega) = 1 \cdot t + 1 \\ &= v(v + \sqrt{v^2 + 4\omega}) + 1 \end{aligned}$$

جواب $\omega + v\sqrt{v^2 + 4\omega}$

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$$y = kx^2 - \epsilon x - y \quad x = \frac{y}{k} \quad 9$$

$$y = \frac{\epsilon}{k} - \frac{1}{k} - y = -\frac{\epsilon}{k} - y \quad \text{جواب صحیح}$$

$$-\frac{\epsilon}{k} - y = -\frac{1}{k} - \epsilon$$

$$\epsilon = -\frac{\epsilon}{k} \rightarrow k = -1$$

$$y = \epsilon - y = -y \quad \text{جواب صحیح}$$

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$$y = -mx^2 + mx + 1$$

$$y = -x - m$$

$$-mx^2 + mx + 1 = -x - m$$

$$mx^2 - (m+1)x - (m+1) = 0$$

$$\Delta < 0 \rightarrow$$

$$(m+1)^2 + 4m(m+1) < 0$$

$$(m+1)(5m+1) < 0$$

$$-1 < m < -\frac{1}{5}$$