

$$y = x^2 + 1 + 2x$$

ملیا تو لیاں

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$$[B] \rightarrow \text{مستوی}$$

$$y = a(n - 1)^2 + b$$

$$y = a(n + 1)^2 + q \rightarrow 1 = a(3 + 1)^2 + q$$

$$1 = 16a + q \rightarrow -1 = 16a \Rightarrow a = -\frac{1}{16}$$

$$y = -\frac{1}{16}n^2 - \frac{1}{8}n$$

$$\Delta > 0$$

$$m^2 - \epsilon(m + 1) > 0$$

$$m^2 - \Delta m - \epsilon \Delta > 0$$

$$(m - 1\epsilon)(m + \epsilon) > 0$$

$$\frac{-\epsilon \pm \sqrt{\epsilon^2 + 4\epsilon\Delta}}{2}$$

$$\epsilon \in (-\infty, -\epsilon) \cup (1\epsilon, +\infty)$$

$$\frac{-b}{a} = \frac{a}{c} \Rightarrow \frac{-2m + 1}{1} = \frac{1}{1 - m}$$

$$a = -\epsilon m + 2m^2 + 1 - m$$

$$2m^2 - \Delta m - 1 = 0$$

$$\Delta = \Delta 1$$

$$m = \frac{\Delta \pm 1}{2} \Rightarrow$$

$$m = \frac{1}{2}, -1$$

Rali

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$$\Delta > 0$$

$$(r m - 1)^2 - \epsilon(r)(r - m)$$

$$\epsilon m^2 + \lambda m - r^2 > 0 \begin{cases} m=1 \Rightarrow \epsilon - 1 - r^2 = -2V \\ m = \frac{r}{\epsilon} \Rightarrow \epsilon + 2\lambda - r^2 = 4\epsilon \end{cases}$$

$$x_1 + x_r = 1 \quad x_1 x_r = -\epsilon$$

$$y_1 = x_1^3 + \frac{1}{x_r} \quad y_r = x_r^3 + \frac{1}{x_1}$$

$$y_1 + y_r = x_1^3 + \frac{1}{x_r} + x_r^3 + \frac{1}{x_1}$$

$$(x_1 + x_r)^3 - 3x_1 x_r (x_1 + x_r) =$$

$$1^3 - 3(-\epsilon)(1) = 1^3$$

$$\frac{1}{x_1} + \frac{1}{x_r} = \frac{x_1 + x_r}{x_1 x_r} = -\frac{1}{\epsilon}$$

$$\Rightarrow y_1 + y_r = \frac{1}{\epsilon}$$

$$y_1 y_r = \left(x_1^3 + \frac{1}{x_r}\right) \left(x_r^3 + \frac{1}{x_1}\right)$$

$$x_1^3 x_r^3 + x_1^2 + x_r^2 + \frac{1}{x_1 x_r} \xrightarrow[\text{Rali}]{\substack{(-\epsilon)^3 = -\epsilon\epsilon \\ 5 - 2p = 1 - 2(-\epsilon) = 9}} \frac{1}{p} = -\frac{1}{r}$$

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$$y_1 y_2 = -4\epsilon + 9 - \frac{1}{\epsilon} = -\omega \Delta - \frac{1}{\epsilon} = -\frac{221}{\epsilon}$$

$$x^2 - \frac{\omega \Delta}{\epsilon} x - \frac{221}{\epsilon} = 0$$

- \Delta

$$\sqrt{x} = t$$

$$(t^2 + \frac{1}{t^2} + 1)(t^2 - 1) = 2t$$

$$t^4 - \frac{1}{t^2} = 2t \rightarrow t^6 - \frac{1}{t^2} - 2t = 0$$

$$t^6 - 2t^3 - 1 = 0 \rightarrow z^3 - 2z - 1 = 0$$

$$z = \frac{2 \pm \sqrt{4}}{3} = 1 \pm \sqrt{1}$$

$$t^3 = 1 + \sqrt{1} \quad \& \quad t^3 = 1 - \sqrt{1}$$

$$x = t^3 \Rightarrow x_1 = 1 + \sqrt{1} \quad + \Rightarrow \boxed{4}$$

$$x_2 = 1 - \sqrt{1}$$

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$$x + 2x = a$$

-f

$$3x = \frac{a}{3} \Rightarrow a = 9x$$

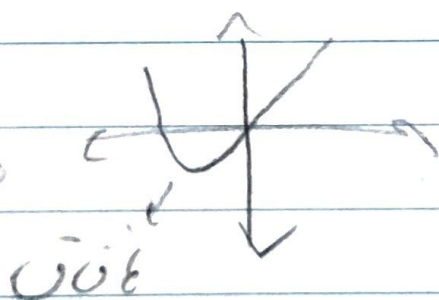
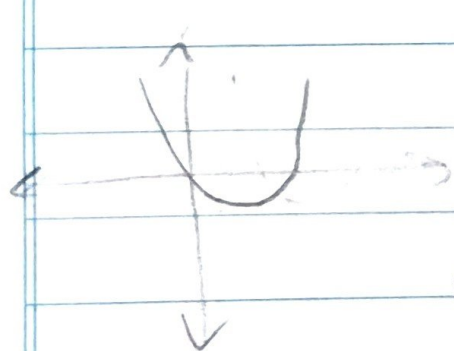
$$x \times 2x = \frac{e}{3}$$

$$2x^2 = \frac{e}{3} \Rightarrow x^2 = \frac{e}{6} \Rightarrow x = \pm \sqrt{\frac{e}{6}}$$

$$\sqrt{1} x = \frac{2}{3} \Rightarrow a = 1 \times \frac{2}{3} = \frac{2}{3}$$

$$\sqrt{1} x = -\frac{2}{3} \Rightarrow a = 1 \times -\frac{2}{3} = -\frac{2}{3}$$

$$1 - (-1) = 2$$



$$m > 0 \quad I - V$$

$$I \cap II = \emptyset$$

جمع 2 ریشه عددی

$$= 1 +$$

$$\frac{-b}{a} \geq 0 \Rightarrow$$

$$\frac{-2 - 2a}{a} \geq 0$$

$$\frac{-\frac{2}{3}}{\frac{2}{3}} = -1$$

Ratti

$$\left(-\frac{2}{3}, 0\right) \cap I$$

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$$\frac{-b}{ra} \rightarrow \frac{-a}{r} = \frac{r}{-r} \Rightarrow a=r \quad -1$$

$$y = -x^r + rx + b$$

$$1 = x^r + rx - r \rightarrow x^r + rx - r = 0 \rightarrow$$

$$(x+r)(x-1) = 0 \quad x = 1, -r$$

$$y = -x^r - rx + b \quad ab = r \times \epsilon = 1$$

$$1 = -1 - r + b \rightarrow b = \epsilon$$

$$\frac{-b}{a} = \frac{a}{r} = \frac{-a}{ra} + 1 \quad -9$$

$$\frac{a}{r} = \frac{-a + ra}{ra} \rightarrow \frac{a}{r} = \frac{a}{ra} \Rightarrow a = 1$$

$$rx^r + x - \epsilon = 0 \rightarrow x^r + x - 1/r = 0 \rightarrow$$

$$(x + \epsilon)(x - r) = 0 \rightarrow x = \frac{-\epsilon}{r}, \frac{r}{ra}$$

$$\left[ \frac{-rx}{r} \right] = \left[ \frac{-\epsilon}{r} \right] = -r \quad (x^r - \epsilon/r + x - r)^r =$$

$\uparrow$   $b = -\epsilon$   $\leftarrow$  *Rali*  $rx^r - x - \epsilon$

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$$x^r + 2x - 3m = x^r + 4x + m \quad - | \circ$$

$$0 = 2x + 3m \rightarrow 2x = -3m \rightarrow x = -\frac{3}{2}m$$

$$x^r + 4x + m = 0 \rightarrow \frac{4}{2} = m = \frac{c}{a}$$

$$-m \times x = m \rightarrow x = -1$$

$$x^r + 2x - 3m = 0 \rightarrow \frac{c}{a} = -3m \rightarrow$$

$$-m \times x = -3m \rightarrow x = 3$$

$$x - (-1) = \boxed{f}$$