

نزهة جيعاني

ملف ١٣

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$$y = (a-1)x^2 + x + 3 \rightarrow \frac{-b}{2a} = 2 \rightarrow \frac{-1}{2a-2} = 2$$

$$\varepsilon a - \varepsilon = -1 \rightarrow \varepsilon a = 3 \rightarrow a = \frac{3}{\varepsilon}$$

$$y = 0 \rightarrow -\frac{1}{\varepsilon}x^2 + x + 3 = 0 \rightarrow x^2 - \varepsilon x - 3\varepsilon = 0$$

$$(x-4)(x+7) = 0$$

$$x = 4$$

$$x = -7$$

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$$x_1 \quad x_2 \quad m x^2 - a x + m$$

$$- \phi + \phi - \rightarrow m < 0 \rightarrow P > 0 \rightarrow P = 1$$

$$S < 0$$

$$x_1 = \frac{1}{x_2} \rightarrow \frac{1}{x_2} + x_2 = \frac{a}{m}$$

$$\Delta > 0 \rightarrow 4a - 4m^2 > 0 \rightarrow 4a > 4m^2 \rightarrow \frac{4a}{4} > m^2 \rightarrow \frac{a}{4} > m$$

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$$S = \frac{\mu - \sqrt{a} + \mu + \sqrt{a}}{\mu} = \mu$$

$$\rho = \frac{\mu - \sqrt{a}}{\mu} \times \frac{\mu + \sqrt{a}}{\mu} = \frac{a - a}{a} = \frac{\varepsilon}{a}$$

$$\rightarrow n^r - S n + P = 0 \rightarrow n^r - \mu + \frac{\varepsilon}{a} \times a,$$

$$a n^r - \mu n + \varepsilon = 0$$

$$\frac{\alpha}{\beta} \Rightarrow \mu n^r - \lambda n + m + r = 0 \quad \left\{ \begin{array}{l} S = \mu \\ \rho = \frac{m+r}{\mu} \end{array} \right.$$

$$\alpha^r + \beta^r + r \alpha^r = 1r$$

$$\downarrow \rightarrow (S^r - r\rho) + \lambda \alpha - m - r = 1r$$

$$\mu \alpha^r = \lambda \alpha - m - r \quad \underline{1r - m - r}$$

$$\lambda \alpha - r m + r = 1r \rightarrow \varepsilon \alpha = m$$

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

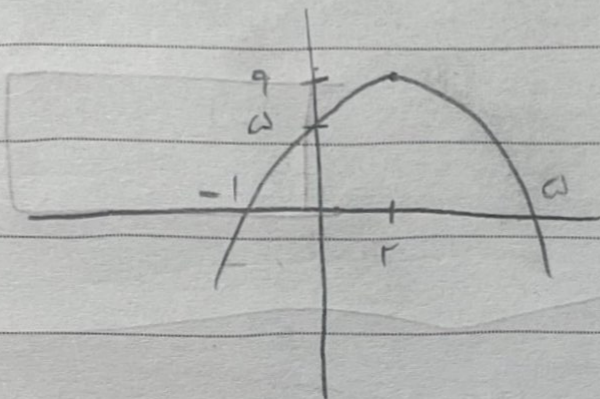
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$$\frac{-b}{2a} = r$$

$$\rightarrow -b = 2a \rightarrow b = -2a$$

$$b = 2$$

$$x = r \rightarrow 2a + 2b + \omega = 9 \rightarrow 2a + 2b = 9 - \omega \rightarrow 2a + 2b = 7 \rightarrow a + b = \frac{7}{2} \rightarrow a = -1$$



$$f(x) = -x^2 + 2x + \omega$$

$$(-x + \omega)(x + 1) = 0$$

$$x = \omega - 1$$

$$x \Rightarrow (-1, \omega)$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\alpha + \beta}{\alpha\beta} = \frac{S}{P}$$

- 4

$$S = \frac{v}{\alpha}$$

$$\frac{v}{\alpha} + \frac{v\beta}{\alpha} = \frac{v + v\beta}{\alpha} = \frac{\alpha + \beta}{\alpha\beta}$$

$$P = \frac{v\beta}{\alpha}$$

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

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

$$x^r + mx - rm = 0 \quad \begin{cases} \alpha \rightarrow S = -m \\ \beta \rightarrow P = -rm \end{cases}$$

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$$\alpha^r - m\beta = \Lambda \quad \underbrace{-m(S)} + rm = \Lambda$$

$$-m\alpha + rm$$

$$+m^r + rm - \Lambda = 0 \rightarrow (m+\varepsilon)(m-r) =$$

$$\rightarrow m = r - \varepsilon$$

$$S = -m \Rightarrow \boxed{-r - \varepsilon}$$

$$mx^r + \varepsilon x + \frac{m}{r} + v = f(x)$$

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$$-\frac{\Delta}{\varepsilon\alpha} = \Lambda \rightarrow rra = rac - b^r$$

$$rrm + 19 = r(m) \left(\frac{m}{r} + v \right)$$

$$m^r - rm - \Lambda = 0$$

$$\leftarrow 0 = rm^r + r\Lambda m - rrm - 19$$

$$(m-\varepsilon)(m+r) = 0$$

$$rm^r - \varepsilon m - 19 = 0$$

$$m = \varepsilon - r$$

$$\rightarrow \text{cancel}$$

$$m = -r$$

$$x^r - rx - r = 0$$

$$-rx^r + \varepsilon x + 4 = 0$$

$$(x-r)(x+1) = 0$$

$$x = r$$

$$x = -1$$

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$$\boxed{k = r}$$

$$an^r + bn + c = f(n) \quad \begin{matrix} \alpha \\ \beta \end{matrix}$$

-9

$$\frac{1}{\alpha} + \frac{1}{\beta} = ? \quad \rightarrow \quad C = r \quad \rightarrow \quad -\frac{b}{ra} = r \rightarrow \varepsilon a = -b$$

$$-\frac{\Delta}{\varepsilon a} = 9 \rightarrow \varepsilon a = \varepsilon ac - b^r \quad b^r = -1a$$

$$\begin{aligned} \left(\begin{aligned} \cancel{1a} &= -rb \\ -1a &= b^r \end{aligned} \right) \Rightarrow b^r - rb = c \rightarrow b = \frac{c}{r} \rightarrow \varepsilon a = -b \\ \underline{b = r} \rightarrow \underline{a = -\frac{1}{r}} \end{aligned}$$

$$\frac{1}{r} n^r + rn + r \frac{x^r}{r} \rightarrow n^r - rn - 1 = 0 \quad \sqrt{r^2 - 4} = r \sqrt{r}$$

$$\rightarrow \alpha, \beta = \frac{r \pm \sqrt{r^2 - 4}}{r}$$

$$\frac{1}{\alpha} = \frac{1}{r + r\sqrt{r}} \quad \left(+ \right) \quad \frac{1}{\beta} = \frac{1}{r - r\sqrt{r}} \quad \rightarrow \quad \frac{r - r\sqrt{r} + r + r\sqrt{r}}{r - 1r} = \frac{\varepsilon}{-1}$$

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

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$$n = r$$

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$$\cancel{r} - \cancel{\lambda a} - \cancel{\lambda} + \cancel{r a^r} + \cancel{\lambda a} + \cancel{r} = 0$$

$$r a^r - r a - 1 = 0 \rightarrow a^r - r a - \frac{1}{r} = (a - r)(a + 1)$$

$$a = 1 \pm \frac{1}{r} \rightarrow a = 1 - \frac{1}{r} \rightarrow r a^r - \lambda a + 1 = 0$$

$$a = -\frac{1}{r} \rightarrow r a^r - \frac{\lambda}{r} a + \frac{\lambda}{r} = 0 \rightarrow x^r$$

$$r a^r - \lambda a + 1 = 0$$

$$(n - 4)(n - 1) = 0 \rightarrow \frac{n \leq 4}{n \leq 4}$$

$$r a^r - \lambda a + 1 = 0 \rightarrow r a^r - \lambda a + 1 = 0 \rightarrow (n - 4)(n - 1)$$

$$\frac{n \leq 4}{n \leq \frac{r}{r}}$$

$$n_1 = r$$

$$n_2 = \frac{r}{r} = 1$$

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