

تالیف سہ ماہی

رینب ماہی کلاس A

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1 سوال

$$\begin{cases} x \leq -1 \\ y \leq 9 \end{cases}$$

$$y = a(x-1)(x-3)$$

$$\begin{cases} 1 \leq 9a + 3b + c \\ 9 \leq a - b + c \end{cases}$$

$$-1 \leq 1a + 3b$$

$$-2 = 1a + b$$

$$\rightarrow 1a \leq -2 - b \rightarrow \frac{b}{-1-b} \leq -1$$

$$\frac{b}{-1-b} \leq -1 \rightarrow b \leq -1 \rightarrow a \leq -\frac{1}{-1} \rightarrow c \leq 1, d \Rightarrow y \leq -\frac{1}{-1} - 1 + \frac{1}{-1}$$

$$\Delta > 0 \rightarrow b^2 - 4ac, m^2 - 4(r)(m+4) \leq m^2 - 4m - 16 = (m-12)(m+4)$$

$$\frac{-r \pm \sqrt{r^2 - 4ac}}{2a} \rightarrow m > 12, m < -4 \rightarrow (-\infty, -4) \cup (12, +\infty)$$

$$\Delta > 0 \rightarrow -\frac{b}{a} > 0 \rightarrow -\frac{m}{r} > 0 \rightarrow \frac{m}{r} < 0 \rightarrow m < r, p > 0 \rightarrow \frac{m+4}{r} > 0$$

$$m \in (-4, 4) \quad m > -4$$

$$\Delta \leq \frac{1}{p} \rightarrow -\frac{b}{a} \leq \frac{4}{c} \leq a^2 \leq bc \rightarrow 9 \leq (1m-1)(1-m)$$

$$1m^2 - 2m + 1 - 9 \leq 1m^2 - 0m - 1 \rightarrow m^2 - 2m - 12 \leq 0 \rightarrow (m-12)(m+4)$$

$$m \leq \frac{12}{-1}, m \leq -1 \rightarrow \Delta > 0 \rightarrow m \leq -1 \quad 1m^2 - 3m + 1 \leq 0$$

$$\Delta \leq 9 - (1 \times 1 \times 1) \rightarrow m \leq 1, d \rightarrow 1m^2 - 2m - 1, d \leq 0 \rightarrow d \leq 1/4 + (1 \times 1)/4$$

$$m \leq 1/2$$

$$\left(\sqrt[n]{x^r} + \frac{1}{\sqrt[n]{x^r}} + 1\right) \left(\sqrt[n]{x^r} - 1\right) \xrightarrow{\sqrt[n]{x^r}} (\sqrt[n]{x^r} + 1 + \sqrt[n]{x^r}) (\sqrt[n]{x^r} - 1)$$

$$x^r - 1 = r\alpha \Rightarrow x^r - r\alpha - 1 = 0 \quad \begin{cases} P = -1 \\ S = r \end{cases}$$

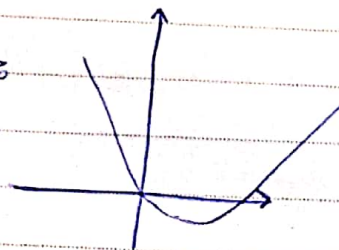
$$\alpha + \beta = \frac{-(-\alpha)}{r} = \frac{\alpha}{r}, \quad \alpha \cdot \beta = \frac{r}{r}$$

$$\alpha(r\alpha) = r\alpha^r \cdot \frac{r}{r} \rightarrow \alpha = \frac{r}{r} \Rightarrow \alpha = r(\alpha + \beta) = r(\alpha + r\alpha) = 12\alpha$$

$$\Rightarrow \alpha = 1, \alpha r = 1 \Rightarrow \alpha = 1, r = 1$$

$$a = \frac{r}{r} = 1, -1$$

$\alpha > 0 \rightarrow$ چون برای از میان برداشتن صفر



$$-\frac{b}{a} = \frac{-r - r\alpha}{a} > 0$$

$$-\frac{r}{r} < \alpha < 0$$

$$\left. \begin{aligned} y &= x^r + \alpha x - r \rightarrow \text{مقیاس} \Rightarrow x = -\frac{\alpha}{r} \\ y &= x^r - r\alpha + b \rightarrow r\alpha \leq x = -1 \end{aligned} \right\} + \frac{\alpha}{2} = -1 \Rightarrow \alpha > r$$

$$m^r + r m - r \leq 1 \Rightarrow m^r - r m - r \leq 0 \Rightarrow m \leq 1, -r$$

$$b \leq r \leq \text{مقدار } y = x^r - r\alpha + b \text{ در } (1, 1) \text{ که } \leq \text{ در } (r, 1) \text{ که } \leq$$

$$a \cdot b = r \times r \leq 1$$

$$b \leq r$$

$$r x^r - \alpha x + b \leq 0, \quad r \alpha x^r + \alpha x - r \leq 0$$

$$S > \frac{\alpha}{r}$$

$$S' = S + 1 = -\frac{\alpha}{r\alpha}$$

$$r x^r - \alpha x + b \leq 0, \quad r \alpha x^r + \alpha x - r \leq 0$$

$$\Rightarrow \text{مقدار} \Rightarrow \left(x + \frac{r}{r}\right) \left(x - \frac{r}{r}\right) \leq 0 \Rightarrow x_1 \leq -r$$

$$x_2 \leq 1/r$$

$$x_1, x_2 \leq r$$

$$-r \leq \frac{b}{r} \quad b \leq -r$$

$$\left[\frac{-4 \times 1}{r}\right] = \left[\frac{-r}{r}\right] = (-r)$$

Arman

$$\begin{cases} a^r + 4a + m s_0 \\ a^r + 4a - 4m s_0 \end{cases} \Rightarrow (a^r + 4a + m) - (a^r - 4a - 4m) s_0$$

$$a^r + 4a + m s_0 \Rightarrow a^r + 4a - a s_0 \Rightarrow a^r + 3a s_0 \Rightarrow \begin{cases} a s_0 = 0 \\ a s_0 = 0 \end{cases} \checkmark$$

$$n^r + 4n + m s_0 \Rightarrow n^r + 4n + a s_0 \Rightarrow (n+1)(n+a) s_0$$

$$n^r + 4n - 4m s_0 \Rightarrow n^r + 4n - a s_0 \Rightarrow (n-3)(n+a) s_0$$

$$1 - 4 s_0 \quad (f)$$

$$n_1 \neq n_r = S = 1 \quad n_1, n_r = P = 2$$

$$S' s \frac{n_1^r + 1}{n_r} + n_1^r \frac{1}{n_1} = (S' - 4SP) + \frac{n_1 + n_r}{n_1 n_r}$$

$$S' - 4 + \frac{1}{P} = \frac{a}{P} \Rightarrow P' \left(n_1^r + \frac{1}{n_r} \right) \left(n_r^r + \frac{1}{n_1} \right) = (n_1 n_r)^r$$

$$+ n_1^r \left(\frac{1}{n_1} \right) + \left(\frac{1}{n_r} n_r^r \right) + \frac{1}{n_1 n_r} = \underbrace{(n_1 n_r)^r}_{-4P} + \underbrace{n_1^r n_r^r \frac{1}{n_1 n_r}}_{-\frac{1}{P}}$$

$$= -\frac{4P}{P} \Rightarrow n_1^r - \left(\frac{a}{P} \right) n_1' + \left(-\frac{4P}{P} \right) s_0$$

$$(n_1')^r - \frac{a}{P} n_1' - \frac{4P}{P} s_0$$

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