

19, 170

کتاب 19

آزمون ریاضی

$$\alpha + \alpha^2 = \alpha^3 = \frac{a}{\alpha} \quad \alpha \times \alpha^2 = \alpha^3 = \frac{a}{\alpha} \quad \textcircled{1}$$

$$\alpha^2 = \frac{a}{\alpha} \rightarrow \alpha = \pm \frac{a}{\alpha} \quad \alpha \times \frac{a}{\alpha} = \frac{a}{\alpha} \quad \alpha = 1$$

$$\alpha \times \frac{-a}{\alpha} = \frac{a}{\alpha} \quad \alpha = -1 \quad \left. \begin{array}{l} \alpha = 1 \\ \alpha = -1 \end{array} \right\} 1 + 1 = 2$$

$$\frac{1}{\sqrt{a}} + \frac{1}{\sqrt{b}} = \omega \quad m\alpha^2 + \alpha + 1 = 0 \quad \frac{r}{m} = ? \quad \textcircled{2}$$

$$\frac{\sqrt{a} + \sqrt{b}}{\sqrt{ab}} = \omega \quad \sqrt{a} + \sqrt{b} = \frac{\omega}{\sqrt{ab}} \quad \textcircled{3}$$

$$\alpha + \beta + 1\sqrt{ab} = \frac{r\omega}{\sqrt{ab}} \rightarrow \frac{m+12}{\sqrt{ab}} + \frac{r}{\sqrt{ab}} = \frac{r\omega}{\sqrt{ab}}$$

$$\frac{c}{a} = \frac{1}{\sqrt{ab}} \quad \frac{-b}{a} = \frac{m+12}{\sqrt{ab}} \quad m+12+12 = 2\omega \quad m = -1$$

$$\frac{r}{m} = \frac{r}{-1} = -r$$

$$\alpha\beta = -r \quad \alpha + \beta = 1 \quad \beta = \frac{-r}{\alpha} \rightarrow \alpha + \frac{-r}{\alpha} = 1 \quad \textcircled{1, 170} \quad \textcircled{4}$$

$$\frac{\alpha^2 - r}{\alpha} = 1 \rightarrow \alpha^2 - \alpha - r = 0 \rightarrow (\alpha + 1)(\alpha - r) = 0$$

$$\downarrow \quad \downarrow$$

$$-1 \quad r$$

$$r \rightarrow m^2 + 2K - 11 - r = 0 \rightarrow 2K = 11 - r \quad K = \frac{11-r}{2}$$

$$\alpha + \beta = -\gamma \quad \alpha\beta = a \quad \alpha\beta < 0 \quad m\alpha^2 + r\beta^2 = -\gamma\omega^2 \quad \textcircled{5}$$

$$12\sqrt{r} + 11\omega \rightarrow \frac{\omega}{r}(\alpha^2 + \beta^2) + \frac{1}{r}(\alpha^2 - \beta^2)b$$

$$a \quad \text{Resalat} \quad \alpha^2 + \beta^2 = (\alpha + \beta)^2 - 2\alpha\beta \rightarrow 11\gamma - 2\alpha\beta$$

$$\sqrt{\omega}(-\gamma) \leftarrow (\alpha + \beta)(\alpha - \beta)$$

$$a < b \quad (b, a) \rightarrow$$

$$12\sqrt{r} + 140 = a(34 - 12\beta) - 4\sqrt{\Delta}$$

$$12\sqrt{r} = -4\sqrt{\Delta} \rightarrow \sqrt{r} = \Delta$$

$$\frac{140}{a} = 34 - 12\beta \rightarrow 34 - 12\beta = \frac{140}{a} \rightarrow 12\beta = 34 - \frac{140}{a}$$

$$12\beta = 2 \quad 9\beta = 1 \rightarrow a = 1$$

$$x^2 + t \rightarrow t^2 - vt + a = 0$$

$$t = \frac{v \pm \sqrt{v^2 - 4a}}{2} \quad t > 0, \quad t = \frac{v + \sqrt{v^2 - 4a}}{2}$$

$$t \rightarrow \sqrt{\frac{v + \sqrt{v^2 - 4a}}{2}} - \sqrt{\frac{v - \sqrt{v^2 - 4a}}{2}} = 0$$

$$\rightarrow \frac{-v - \sqrt{v^2 - 4a}}{2} \quad 2p^2 - 4sp + 2s = 2p = 2 \left(\frac{-v - \sqrt{v^2 - 4a}}{2} \right) \rightarrow$$

$$\frac{11a + 12\sqrt{4a}}{2} = a + \sqrt{4a}$$

$$s \rightarrow \frac{a}{r} \quad p = \frac{b}{r} \quad a + \frac{1}{r} + b + \frac{1}{r} \rightarrow s = \frac{-a}{ra} = \frac{4}{r}$$

$$p = \frac{-s}{ra} = \frac{r}{a} \quad a + b + 1 \rightarrow \frac{-1}{r} = \frac{a}{r} + 1 \quad a = -r$$

$$9b + \frac{1}{r}(a+b) + \frac{1}{2} \rightarrow \frac{b}{r} - \frac{r}{2} + \frac{1}{2} = \frac{-r}{a} = 1 \rightarrow \frac{b}{r} = \frac{r}{2} \quad b = \frac{r^2}{2}$$

$$\left[\frac{ab}{r} \right] = \left[\frac{-9}{r} \right] = -r$$

$$\begin{cases} s = \frac{a}{r} \\ p = \frac{b}{r} \end{cases} \quad \begin{cases} s = \frac{1}{r} \rightarrow a + b = \frac{1}{r} = \frac{a}{r} \rightarrow a = 1 \\ p = -r \rightarrow b = -9 \end{cases}$$

$$\left[\frac{ab}{r} \right] = -r$$

$$\alpha = 1 - \beta$$

$$r \cdot \beta^r + r \cdot (1 - \beta)^r - r \cdot \beta = v \Rightarrow r \cdot \beta \left(\frac{\beta - 1}{-\alpha} \right) = -1 \rightarrow \alpha \beta = \frac{1}{r} = \frac{-b}{a}$$

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$$\rightarrow \alpha = -\frac{r \cdot b}{a} \quad \alpha x - b = 0 \rightarrow -r \cdot b \alpha^r + r \cdot b \alpha - b = 0 \quad |\alpha - \beta| = \frac{\sqrt{\Delta}}{|a|} = \frac{r}{r\alpha}$$

$$x^r \leq \frac{ax+b}{r}$$

$$\beta^r \leq \frac{a\beta+b}{r}$$

(1)

(1.5)

$$r_0 \left(\frac{a\beta+b}{a} \right) + (r_0) \left(\frac{a\alpha+b}{a} \right) - r_0 \beta = 1v \quad \times \alpha$$

$$r_0 \alpha \beta + \epsilon_0 b + r_0 a \alpha + r_0 b - r_0 \beta \alpha = 1v \alpha$$

$$r_0 \alpha + \epsilon_0 b = 1v \alpha \quad r_0 b = -r \alpha \quad b = \frac{-r}{\epsilon_0} \alpha$$

$$\rightarrow \frac{+\sqrt{\Delta}}{|a|} = \sqrt{\frac{r}{1.1} \alpha r} \rightarrow \sqrt{\frac{v}{r}}$$

$$x^r - (\alpha + 1)x + a = 0 \quad q, \alpha + r$$

(1)

$$\left. \begin{array}{l} S = r\alpha + r \\ P = \alpha^r + r\alpha \end{array} \right\} \alpha^r + r\alpha + 1 \leq r\alpha + r \quad \alpha^r \leq 1 \quad \alpha \leq 1$$

$$Q = r(1) \leq r \quad \frac{N}{r} > \alpha \leftarrow$$

$$x^r - (r\alpha + 1)x + b = 0 \quad \beta, \beta + r$$

(5)

$$S = r\beta + r \leq 1 \quad \beta \leq 2 \quad b = r \times q \leq r$$

$$\rightarrow r\epsilon - r = r1$$

$$S = -1 \quad P = -1 - m^r \rightarrow \alpha^r + \beta^r = (\alpha + \beta)^r - r\alpha\beta \quad (9)$$

$$1 - r(-1 - m^r) = r m^r + r \quad m^r \geq 0, \quad m^r \leq r \quad (5)$$

$$A(r, y) \quad B(-a, y) \xrightarrow{r/y} y - 1 \leq a(r+1)^r$$

(10)

$$0 - 1 \leq a(r+1)^r$$

$$r \leq \sqrt{\frac{-1}{a}}$$

$$x \leq -1 \pm r$$

$$\beta \leq -1 - r \quad \alpha \leq -1 + r$$

(5)

$$(q^r + \beta^r) \leq \omega \quad (-1+r)^r + (-1-r)^r \leq$$

$$(1 - 2r + r^2) + (1 + 2r + r^2) \leq 1 + 2r^2$$

$$2r^2 + 1 \leq \omega \quad r^2 \leq \frac{\omega}{2} \quad \frac{-1}{a} \leq \frac{\mu}{r} \quad a \leq \frac{-r}{\mu}$$

$$y - 1 \leq a \quad (y+1)^r \leq a \rightarrow$$

$$y = 1 + a \leq 1 - \frac{r}{\mu} \leq \frac{1}{\mu}$$

$$C \leq \frac{1}{\mu}$$

$$(y^r)_{y \leq 0}$$