

آرشداد پوری از دهم دفتر A - تلف: ششصد و ۱۹

$$\begin{aligned} \beta &\rightarrow r\beta \rightarrow \text{Mittelpunktssatz} \quad S = \frac{-b}{a} = \frac{a}{r} = \beta + r\beta = \epsilon\beta \quad D = \frac{c}{a} = \frac{\epsilon}{r} \cdot r\beta(\beta) = r\beta^r - \\ &\rightarrow r\beta^r = \frac{\epsilon}{r} \rightarrow \beta^r = \frac{\epsilon}{r} \rightarrow \beta = \sqrt[r]{\frac{\epsilon}{r}} \\ \beta &= \frac{r}{r} \rightarrow \frac{\epsilon(r)}{r} = \frac{a}{r} \rightarrow a = 1 \\ \beta &= -\frac{r}{r} \rightarrow \frac{\epsilon(-r)}{r} = \frac{a}{r} \rightarrow a = -1 \Rightarrow |-1-1| = 14 \end{aligned}$$

$$\sqrt{\frac{1}{\alpha}} + \sqrt{\frac{1}{\beta}} = \frac{1}{\sqrt{\beta}} + \frac{1}{\sqrt{\alpha}} = \frac{\sqrt{\alpha} + \sqrt{\beta}}{\sqrt{\alpha\beta}} = \omega \quad S = \alpha + \beta = \frac{m+14}{r_4} \quad P \cdot \alpha\beta = \frac{1}{r_4}$$

$$\sqrt{\frac{m+14}{r_4}} = \omega \rightarrow \sqrt{\frac{m+14}{r_4}} = \omega \rightarrow \frac{m+14}{r_4} = \frac{r_4 \omega}{r_4} \rightarrow m = -1 \rightarrow r_1, r_2, r_3 = 0 \quad (5)$$

~~$$P_c = \frac{c}{a} = \frac{r}{-1} = -r$$~~

$\alpha\beta = r, \alpha + \beta = 1 \rightarrow \alpha(1-\alpha) = \alpha - \alpha^2 = r \rightarrow \alpha^2 - \alpha + r = 0 \rightarrow \alpha = 1 \quad \alpha = r$
 $\alpha = -1, \beta = r$
 $\alpha = r, \beta = 1$
 $\alpha = r \rightarrow 3r + 4K - 12 = 0 \rightarrow 4K = -3 \rightarrow |K = -\frac{3}{4}|$
 $\alpha = -1 \rightarrow 4 + K + 9 = 0 \rightarrow |K = -13|$

$$\alpha + \beta = 4 \quad \alpha\beta = a \quad \alpha = \frac{-4 \pm \sqrt{16 - 4a}}{1} = -2 \pm \sqrt{4 - a} \quad \alpha < \beta \rightarrow \alpha = -2 - \sqrt{4 - a}, \beta = -2 + \sqrt{4 - a}$$

برای منفی بودن α و β داریم:

$$-3 + \sqrt{9-a} < 0 \Rightarrow \sqrt{9-a} < 3 \Rightarrow a > 0 \quad \alpha' = 11 - a + 4\sqrt{9-a} \quad \beta' = 11 - a - 4\sqrt{9-a}$$

$$\rightarrow r\alpha^r + r\beta^r - r(1-a+\sqrt{9-a}) + r(1-a-\sqrt{9-a}) - 9a - 9a + 4\sqrt{9-a} = 12\sqrt{9-a} + 12a$$

$$\rightarrow \sqrt{9-a} = (1/\sqrt{r} + a - c) \quad \text{r O f r, } 1/\sqrt{r}(a-1) = 0 \rightarrow a-1=0 \rightarrow \boxed{a=1}$$

$$\alpha = r - \sqrt{1} < \beta = -r + \sqrt{1} < 0 \quad \checkmark$$

$$\begin{aligned} \pi^r = 0 \rightarrow n^r \cdot V \cdot n \cdot a = 0 \rightarrow \Delta = \epsilon_9 \cdot r \cdot \epsilon_9 \quad n = \frac{V \pm \sqrt{V^2}}{r} \rightarrow \pi^r = \frac{V - \sqrt{V^2}}{r} \quad \text{--- } a \\ \pi^r = \frac{V + \sqrt{V^2}}{r} \rightarrow n = + \sqrt{\frac{V + \sqrt{V^2}}{r}} \rightarrow S = 0 \quad p = \frac{V + \sqrt{V^2}}{r} \rightarrow p^r = \frac{\epsilon_9 + 1 \cdot \sqrt{\epsilon_9} + \epsilon_9}{\epsilon} \quad (5) \end{aligned}$$

$$r_P^r - r_{SP,TS} = 0.9 + \sqrt{0.9}$$

$$f) \text{ (شماره های معادله اول)} : r_1, r_2 \quad \text{ (شماره های معادله اول)} : r_1 + \frac{1}{r}, r_2 + \frac{1}{r}$$

$$S_r = r_1 + r_2 = -\frac{1}{r} \quad P_r = r_1 \cdot r_2 = \frac{r}{a} \quad S_1 = r_1 + \frac{1}{r} + r_2 + \frac{1}{r} = (r_1 + r_2) + \frac{1}{r} = -\frac{1}{r} + \frac{1}{r} = 0 \Rightarrow \boxed{a=1}$$

(2)

$$P_1 = (r_1 + \frac{1}{r})(r_2 + \frac{1}{r}) = r_1 \cdot r_2 + \frac{1}{r}(r_1 + r_2) + \frac{1}{r^2} = \frac{r}{a} - \frac{1}{r} + \frac{1}{r^2} = \frac{-r^2}{a} \xrightarrow{a=1} P_1 = -r = \frac{b}{r} \Rightarrow \boxed{b=-r^2}$$

$$\left[\frac{ab}{r}\right] = \left[\frac{-r^2}{r}\right] = \left[\frac{-r^2}{r}\right] = -r$$

$$S = \frac{a}{a} = 1 = \alpha + \beta \quad P = \frac{-b}{a} = \alpha \beta \xrightarrow{a=1} \alpha + \beta = 1 \quad \alpha^2 = (1-\beta)^2 = 1 - 2\beta + \beta^2$$

$$\xi = \beta^2 + 2(1-2\beta + \beta^2) - 2\beta = 1 \Rightarrow \xi = \beta^2 \quad \xi = \beta + r = 0 \quad \div r, \quad r \cdot \beta^2 \quad r \cdot \beta + 1 = 0$$

(5)

$$\Delta = \xi - 4 = -2r \Rightarrow \beta = \frac{r \pm \sqrt{4r^2}}{2} = \frac{\omega \pm r\sqrt{\omega}}{1}, \quad \alpha = \frac{\omega \mp r\sqrt{\omega}}{1}$$

$$|\alpha - \beta| = \left| \frac{(\omega - r\sqrt{\omega}) - (\omega + r\sqrt{\omega})}{1} \right| = \frac{r\sqrt{\omega}}{\omega}$$

$$\alpha^2 - (a+1)\alpha + a = 0 \rightarrow \alpha = 1, \beta = 1, n \in \mathbb{N} \quad \alpha + \beta = S = \xi n = a+1 \rightarrow a = \xi n - 1$$

(5)

$$P = \alpha \cdot \beta = (1n-1)(1n+1) = \xi n^2 - 1 = a \rightarrow \xi n^2 = \xi n \rightarrow n^2 = n \rightarrow n=1 \rightarrow a = r^2 \rightarrow P_1 = r^2$$

$$\alpha^2 - (ra+1)\alpha + b = 0 \quad a=r^2 \rightarrow \alpha^2 - 1 \cdot \alpha + b = 0 \rightarrow 2K, 2K+2 \rightarrow S_r = 2K+2K+2 = \xi K+2 = 1 \rightarrow K=r^2$$

$$\text{ (شماره های معادله اول)} : 1, r^2 \quad \text{ (شماره های معادله اول)} : \xi, r \quad |(1 \cdot r^2) - (\xi \cdot r)| = |r^2 - r\xi| = 21$$

$$S = \alpha + \beta = -\frac{1}{r} = -1 \quad P = \alpha \cdot \beta = \frac{-1-m^2}{1} = -1-m^2 \quad \alpha^2 + \beta^2 = (\alpha + \beta)^2 - 2\alpha\beta$$

$$\rightarrow 1 - 2(-1-m^2) = 1 + 2 + 2m^2 = 3 + 2m^2 \quad m^2 \geq 0 \rightarrow 2m^2 \geq 0 \rightarrow 2m^2 + 3 \geq 3 \rightarrow \alpha^2 + \beta^2 \geq 3$$

(5)

$$\Rightarrow m^2 = 0 \rightarrow 2(0) + 3 = 3 \Rightarrow \alpha^2 + \beta^2 = 3$$

استرین مقدار وقتی حاصل می شود که $m^2 = 0$ باشد

$$\frac{-\omega \pm \sqrt{\omega^2 - 4 \cdot \frac{-r}{r}}}{2} = \frac{-\omega \pm \sqrt{\omega^2 + 4}}{2} \rightarrow S(-1, 1)$$

1. چون دو نقطه هم عرض هستند، خطی با شیب 0 از این دو نقطه می گذرد.

$$\alpha^2 + \beta^2 = (\alpha + \beta)^2 - 2\alpha\beta = \omega \quad \alpha S = \frac{-b}{ra} = -1 \rightarrow \frac{-b}{a} = -r = S = \alpha + \beta$$

(1.70)

$$\rightarrow (-r)^2 - 2\alpha\beta = \omega \rightarrow 2\alpha\beta = r^2 - \omega = -1 \rightarrow \alpha\beta = -\frac{1}{r} = P \quad y = \alpha^2 S + P \rightarrow y = \alpha^2 r + \frac{1}{r}$$

$$\alpha = 0 \rightarrow y = 0 + 0 - \frac{1}{r} \rightarrow y = -\frac{1}{r} \rightarrow (0, -\frac{1}{r})$$

$$\alpha S = -1 \quad y = \alpha \alpha' + \alpha \alpha + \alpha + 1$$

$$\alpha^2 + \beta^2 = S^2 - 2P \rightarrow a = \frac{-r^2}{r}$$

(1.)

$$a+1 = \frac{1}{r} \quad \leftarrow \text{درجه اول}$$

s.a.m