

☆. A. مراجعة 19 نصف ☆.

$x_2^2 - ax + 1 = 0 \rightarrow \omega_1: \alpha, x_2 \rightarrow p \text{ و } x_2^2 \pm \frac{1}{p} \Rightarrow \alpha \pm \frac{1}{p} \quad (1)$

(1): $\alpha \pm \frac{1}{p} \rightarrow x_2^2 - \frac{1}{p} - \frac{1}{p} + \frac{1}{p} = 0 \rightarrow \alpha \pm \frac{1}{p}$
 (2): $\alpha \pm \frac{1}{p} \rightarrow x_2^2 - \frac{1}{p} + \frac{1}{p} + \frac{1}{p} = 0 \rightarrow \alpha \pm \frac{1}{p}$

$x_2^2 - (m+1)x + 1 = 0 \rightarrow \frac{1}{\sqrt{\alpha}} + \frac{1}{\sqrt{\beta}} = \omega$

$(\sqrt{\alpha} + \sqrt{\beta})^2 = \alpha + \beta + 2\sqrt{\alpha\beta} = \frac{m+1}{4} + \frac{1}{4} = \frac{m+2}{4} \Rightarrow \sqrt{\alpha} + \sqrt{\beta} = \frac{\sqrt{m+2}}{2}$

$\frac{1}{\sqrt{\alpha}} + \frac{1}{\sqrt{\beta}} = \frac{\sqrt{\alpha} + \sqrt{\beta}}{\sqrt{\alpha\beta}} = \frac{\frac{\sqrt{m+2}}{2}}{\frac{1}{4}} = 2\sqrt{m+2} \Rightarrow m = 5$

$x_2^2 - x_2 + 1 = 0 \rightarrow \omega_1: \alpha, x_2 \rightarrow p \text{ و } x_2^2 - \frac{1}{p} = 0$

$3 \leq 1, p \leq \alpha\beta \leq -1 \Rightarrow \alpha, -\frac{1}{\alpha} \rightarrow \alpha - \frac{1}{\alpha} = \frac{\alpha^2 - 1}{\alpha} = 1$

$\alpha^2 - 1 = \alpha \Rightarrow (\alpha - 1)(\alpha + 1) = 0 \Rightarrow \alpha = 1$

$\alpha = 1 \rightarrow -1 + k + 1 = 0 \Rightarrow k = 0$

$$2^r + 4a + a s_0 \rightarrow 1\alpha^r + 1\beta^r = \omega_1 \alpha^r + \alpha_1^r + \omega_1 \beta^r - \beta_1^r = \quad (14)$$

$$\omega_1 (\alpha^r + \beta^r) + \alpha^r - \beta^r = \omega_1 (s^r - 2p) + \frac{1}{r} S \left(\frac{\sqrt{\Delta}}{1a1} \right) =$$

$$\frac{\omega}{r} (14 - 1a) - 4\sqrt{9-a} = 9 - \omega a + 4\sqrt{9-a} = 12\sqrt{r} + \Lambda \omega$$

$$9 - \frac{\omega}{\Lambda \omega} - 12\sqrt{r} - \omega a = 4\sqrt{9-a} \quad (5)$$

$$- \omega a + 12 \cdot a \cdot \sqrt{r} + \frac{12}{r} + \frac{12}{r} + \frac{12}{r} + \frac{12}{r} - 12 \cdot \sqrt{r} = 14(9-a)$$

$$\rightarrow 20a^r - 12 \cdot \sqrt{r} + (12 \cdot \sqrt{r} - \omega) a = 11 - 14a \Rightarrow a = 1$$

$$a a^r - a a - b s_0 \rightarrow 5 = 1 \Rightarrow \alpha, \beta \rightarrow \beta = 1 - \alpha \quad (15)$$

$$S_{11}^0: 1 \cdot (1-\alpha)^r + 1 \cdot \alpha^r - 2 \cdot (1-\alpha) = 14$$

$$E_0(1 - 2\alpha + \alpha^r) + 2 \cdot \alpha^r - 2 + 2 \cdot \alpha = 14 \quad (5)$$

$$E_0 - 1 \cdot \alpha + E_0 \alpha^r + 2 \cdot \alpha^r - 2 + 2 \cdot \alpha = 14 \rightarrow 4 \cdot \alpha^r - 4 \cdot \alpha + 2 = 14$$

$$\rightarrow 4 \cdot \alpha^r - 4 \cdot \alpha + 2 = 14 \rightarrow 4 \cdot \alpha^r - 4 \cdot \alpha = 12 \rightarrow \alpha^r - \alpha = 3$$

$$\rightarrow 2 \cdot a^r - 2 \cdot a + 1 = 0$$

$$|\alpha - \beta| = \frac{\sqrt{\Delta}}{1a1} = \frac{\sqrt{E_0 - 1}}{2} = \frac{1\sqrt{0}}{2} = \frac{1\sqrt{0}}{2} \quad \text{حيث } \alpha \text{ و } \beta \text{ هما الجذور الحقيقية}$$



Year:

Month:

Day:

| |

Subject:



$$x^E \sqrt{x^T} - \omega s_0 - \frac{2^T s_1}{r} + \frac{r^T - v^T}{r} - \omega s_0$$

(12)

$$\Delta s \quad f_9 - (E_{X1X} - \omega) s \quad E_9 + r \cdot s \quad y_9$$

$$\rightarrow \frac{v \pm \sqrt{4y_9}}{r} \rightarrow \frac{v + \sqrt{4y_9}}{r}$$

(5)

$$\Rightarrow \frac{v + \sqrt{4y_9}}{r} \rightarrow s s_0$$

$$\rightarrow \frac{-(v + \sqrt{4y_9})}{r}$$

$$r p^T - \frac{r^T}{p} + \frac{r^T}{p} s \quad r p^T s \quad \left(\frac{f_9 + y_9 + \frac{1}{r} \sqrt{4y_9}}{r} \right) s \quad \frac{11 \wedge + \frac{1}{r} \sqrt{4y_9}}{r}$$

$$s \quad \Delta y + v \sqrt{4y_9}$$

$$r_2^T - a_2 + b s_0 \rightarrow S_1 s \quad q/r \quad p_1 s \quad b/r \rightarrow q + \beta s \quad q/r$$

(19)

$$r_2 a_2^T + a_2 \quad y s_0 \rightarrow S_1^{-1}/r \quad p_1 s \quad -\frac{r}{a} \rightarrow q + \beta + 1 s^{-1}/r$$

$$\rightarrow S_1 + 1 s S_1 \rightarrow q/r + 1 s^{-1}/r \Rightarrow a s - \frac{r}{a}$$

(10)

$$r_2^T + r_2 + b s_0$$

$$\rightarrow r_2^T - \frac{r}{a} - y s_0 \rightarrow p s \quad (q + 1/r) \quad (\beta + 1/r) s \quad q/\beta + \frac{q + \beta}{r} + 1/\varepsilon$$

$$= \frac{b}{r} - \frac{r}{\varepsilon} + \frac{1}{\varepsilon} s \quad 1 \Rightarrow \boxed{b s \quad r} \Rightarrow \left[\frac{a b^{-9}}{r} \right] s \quad (-r)$$

$$r_2^T - a_2 + b = \begin{cases} s = \frac{a}{r} \\ p = \frac{b}{r} \end{cases}$$

$$r_2 a_2^T + a_2 - y \begin{cases} s = \frac{-1}{r} \rightarrow \alpha + \beta = \frac{1}{r} = \frac{a}{r} \rightarrow \alpha = 1 \\ p = -r \rightarrow b = -y \end{cases}$$

(4)

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

$$\bullet \quad x^T + a - 1 - m^T s_0 \rightarrow S s - 1$$

$$\hookrightarrow p s - (1 + m^T) \rightarrow \alpha^T + \beta^T s \quad S^T - r p s \quad 1 + \cancel{r^T + m^T} \quad (9)$$

$$S^T - r p s \quad \boxed{r^T} \leftarrow m s_0: \text{تبدیل مقدار}$$

$$\bullet \quad x^T (a+1) x + a s_0 \rightarrow \alpha + \alpha + r \rightarrow S s \alpha + 1 s^T \alpha + r \quad (1)$$

$$\hookrightarrow p s \alpha s^T \alpha + \alpha^T + b \quad r^T \alpha + \alpha^T + 1 s^T \alpha + r$$

$$\bullet \quad x^T - 1 \alpha + b s_0 \rightarrow \beta, \beta + r$$

$$\boxed{a s^T} \leftarrow \alpha^T s_0 \rightarrow \alpha s + 1$$

تبدیل مقدار

$$\bullet \rightarrow p s b \in r p + p^T, S s_0 s^T \beta + r$$

$$\beta s^T \Rightarrow b s^T \in$$

$$b - a s^T \in -r s^T \quad \boxed{r^T}$$



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| |

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$$A(r, y) B(-0, y) \rightarrow \frac{-b}{ra} \cdot r \cdot s \cdot \frac{r-0}{r} \cdot r \cdot \text{etc} \cdot y \cdot r \quad (10)$$

$$\bullet (-1, 1) \rightarrow y \cdot s \cdot a \cdot (r+1)^r + 1 \cdot s \cdot a \cdot r^r + r \cdot a \cdot r + a + 1$$

$$\bullet \Delta \cdot s \cdot \sqrt{-\epsilon a} \Rightarrow a \cdot s \cdot \frac{-ra \pm \sqrt{-\epsilon a}}{ra} \rightarrow -1 - \sqrt{-1/a}$$

$$\bullet g^r + \beta^r \cdot s \cdot s^r - r \cdot p \cdot s \cdot \epsilon - r(1 - 1/a) \cdot s \cdot a \rightarrow -r/a \cdot s^r$$

$$\rightarrow a \cdot s^r / \mu$$

$$\bullet \xrightarrow{*} y \cdot s \cdot -r/\mu \cdot (r+1)^r + 1 \xrightarrow{r \cdot s \cdot 0} \boxed{y \cdot s \cdot 1/\mu}$$