

بازم دفتر C

19, 5

نیلوف شامادی

فرانک آقایی

$$\alpha = \kappa\beta \rightarrow \alpha \cdot \beta = \kappa\beta^2 = \frac{\kappa}{\mu} \rightarrow \beta^2 = \frac{\kappa}{\mu} \rightarrow \beta = \pm \sqrt{\frac{\kappa}{\mu}} \quad 1.$$

$$\alpha + \beta = \frac{a}{\mu} \rightarrow \frac{\mu}{\mu} + \mu = \frac{a}{\mu} \rightarrow a = \mu$$

$$\left. \begin{array}{l} \alpha + \beta = \frac{a}{\mu} \rightarrow \frac{\mu}{\mu} + \mu = \frac{a}{\mu} \rightarrow a = \mu \\ -\frac{\mu}{\mu} - \mu = \frac{a}{\mu} \rightarrow a = -\mu \end{array} \right\} \mu - (-\mu) = 1\mu$$

$$\sqrt{\frac{1}{x}} + \sqrt{\frac{1}{y}} = \omega \quad \frac{1}{x} + \frac{1}{y} + \mu \sqrt{\frac{1}{xy}} = \mu\omega \rightarrow 1\mu + \underbrace{\left(\frac{\mu+1\mu}{\mu\mu}\right) \times \mu\mu}_{m+1\mu} = \mu\omega \quad 2.$$

$$-\alpha^2 + \mu\alpha + \mu = 0 \rightarrow \alpha \cdot \beta = -\mu$$

$$\mu\mu + m = \mu\omega \rightarrow m = -1$$

$$F + K - 9 - \mu = 0 \rightarrow K = \mu \rightarrow \alpha = 1 \rightarrow \alpha + \beta = 1 + 0 = 1 \rightarrow \beta = 0 \rightarrow \alpha \cdot \beta = 0 \quad 3.$$

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$$F - 9 = K - \mu \rightarrow K = -\mu \rightarrow \alpha = -1 \rightarrow \beta + \alpha = 1 \rightarrow \beta = \mu \rightarrow \alpha \cdot \beta = -\mu \quad \checkmark$$

$$\Delta = \mu\mu - \mu a \rightarrow \frac{-\mu \pm \sqrt{\mu\mu - \mu a}}{\mu} \rightarrow -\mu \pm \sqrt{\mu - a} \rightarrow \alpha^2 = \mu + \mu - a \quad 4.$$

$$\beta^2 = 1\mu - a + \mu\sqrt{\mu - a} \quad \omega\mu - \mu a - 1\mu\sqrt{\mu - a} - 1\mu - a - \mu\sqrt{\mu - a}$$

$$\mu\mu - \mu a + 1\mu\sqrt{\mu - a}$$

$$\frac{\mu}{\mu} - \mu a - \mu\sqrt{\mu - a} = 1\mu\sqrt{\mu} + 1\mu \rightarrow \mu - 1\mu\sqrt{\mu} = \mu a + \mu\sqrt{\mu - a} \rightarrow 1\mu\sqrt{\mu} = \mu a + \mu\sqrt{\mu - a}$$

$$\sqrt{\mu - a} \rightarrow \mu - a = 1 \rightarrow a = 1$$

$$t^2 - vt - \omega = 0 \rightarrow \mu\mu - \mu\mu + \mu\mu = \mu\mu + \mu\sqrt{\mu\mu} \quad 5.$$

$$t = \frac{v \pm \sqrt{v^2 - 4\omega}}{2} \rightarrow \alpha^2 = \frac{v + \sqrt{v^2 - 4\omega}}{2} \rightarrow \alpha = \sqrt{\frac{v + \sqrt{v^2 - 4\omega}}{2}} \quad \alpha\mu = \sqrt{\frac{v + \sqrt{v^2 - 4\omega}}{2}}$$

$$S = \dots \quad \mu = \pm \frac{v + \sqrt{v^2 - 4\omega}}{2}$$

$$\alpha' + \frac{1}{p} = \alpha \quad \beta' + \frac{1}{p} = \beta \quad \left\{ \begin{array}{l} \alpha' \beta' = \frac{q}{\lambda a} \rightarrow (\alpha - \frac{1}{p})(\beta - \frac{1}{p}) = \alpha\beta - \frac{\alpha}{p} - \frac{\beta}{p} + \frac{1}{p^2} = \frac{q}{\lambda a} \end{array} \right. \quad .6$$

$$\alpha' = \alpha - \frac{1}{p} \quad \beta' = \beta - \frac{1}{p} \quad \frac{b}{p} - \frac{1}{p}(\frac{1}{p}) + \frac{1}{p^2} = \frac{q}{\lambda a} \rightarrow b = q \quad (1.2)$$

$$\alpha + \beta = \underbrace{\alpha' + \beta'}_{-\frac{1}{p}} + 1 = \frac{1}{p} \rightarrow a = -1$$

$$\left[\frac{ab}{p} \right] = \left[\frac{-q}{p} \right] = -r \quad \left\{ \begin{array}{l} r\alpha' - a\alpha + b = 0 \rightarrow r\alpha' + \alpha + b = 0 \\ r\alpha\alpha' + a\alpha - 1 = 0 \end{array} \right. \quad \left\{ \begin{array}{l} s = \frac{a}{r} \\ p = \frac{b}{r} \end{array} \right. \quad \left\{ \begin{array}{l} s = \frac{1}{p} \rightarrow \alpha + \beta = \frac{1}{p} = \frac{q}{p} \rightarrow \alpha = 1 \\ p = -r \rightarrow b = -q \end{array} \right.$$

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

$$\alpha + \beta = 1 \rightarrow \alpha = 1 - \beta$$

$$r \cdot \beta' + r \cdot \alpha' - r \cdot \beta = 1 \rightarrow r \cdot \beta' + r \cdot (1 - \beta)' - r \cdot \beta = 1 \rightarrow r \cdot \beta' + r \cdot 1 + r \cdot \beta' - r \cdot \beta - r \cdot \beta = 1$$

$$\downarrow$$

$$1 + \beta' - 2\beta$$

$$r \cdot \beta' - r \cdot \beta + 1 = 0 \rightarrow r \cdot \beta' - r \cdot \beta + 1 = 0 \rightarrow \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{r^2 - 4}}{r} = \frac{\sqrt{4r^2}}{r} = \frac{r\sqrt{4}}{r} = \frac{r\sqrt{4}}{r}$$

$$\alpha_1 = 1$$

$$\alpha' - (a+1)\alpha + a = 0 \rightarrow S = 0 \rightarrow \quad .8$$

$$\alpha' - r\alpha + 1 = 0 \quad \left\{ \begin{array}{l} \alpha = 1 \\ \alpha = r \rightarrow p = r \end{array} \right. \quad \alpha' \Rightarrow 1 - a - 1 + a = 0 \rightarrow 1 = \frac{a}{1} \rightarrow a = 1$$

$$\alpha' - 1 \cdot \alpha + b = 0 \rightarrow \alpha \quad \alpha + r \rightarrow r\alpha + r = 1 \rightarrow \alpha = r \quad \left\{ \begin{array}{l} \alpha + r = q \\ r = p \end{array} \right. \quad r = p$$

$$r = p$$

$$\alpha' + \beta' = S' - rp \rightarrow 1 + r + rm' = q \rightarrow rm' + r = q \rightarrow \frac{\Delta}{ra} = \frac{rk}{\lambda} = 1 \quad .9$$

$$\alpha^p + \beta^p = a \rightarrow S^p - r p = a$$

.10

$$a x^p + b x + c = y \rightarrow q a + r b + c = r a + a b + c$$

$$\wedge b = 1 r a$$

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

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

$$b = r a$$

$$\frac{b^p - r a c}{r a} = -1 \rightarrow r a^p - r a c = -r a$$

$$a(x+1)^p + 1 = y \rightarrow$$

$$y = a x^p + r a x + a + 1$$

$$S^p - r p = r - r \left(\frac{a+1}{a} \right) = a$$

$$-r \left(\frac{a+1}{a} \right) = 1 \rightarrow \frac{a+1}{a} = -\frac{1}{r}$$

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

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