

$$\textcircled{1} \alpha^r = \omega \alpha - r \quad \textcircled{2} \beta^r = \omega \beta + r \rightarrow \beta(\omega \beta - r) \rightarrow \omega \beta^r - r \beta \rightarrow \omega(\omega \beta - r) - r \beta \rightarrow$$

①

$$\textcircled{2} r \beta - 1 \rightarrow \frac{x \beta}{r \beta - 1} \rightarrow r \beta^r - 1 \cdot \beta \rightarrow r \beta(\omega \beta - r) - 1 \cdot \beta \rightarrow 1 \cdot \omega \beta - r \beta$$

$$\textcircled{3} 1 \cdot \omega \beta - r \beta \rightarrow 1 \cdot \omega \beta^r - r \beta \rightarrow 1 \cdot \omega(\omega \beta - r) - r \beta \rightarrow r \beta^r - r \beta \rightarrow \beta^r$$

$$\textcircled{4} \alpha + \beta \rightarrow \alpha + r \beta - 1 \rightarrow \alpha^r - \omega \alpha + r = \beta^r - \omega \beta + r \rightarrow \alpha^r - \beta^r = \omega(\alpha - \beta) = 0 \rightarrow (\alpha - \beta)(\alpha + \beta - \omega) = 0$$

$$\begin{aligned} \alpha + \beta &= \omega \\ \alpha &= \omega - \beta \\ r\alpha &= r\omega - r\beta \end{aligned}$$

$$\textcircled{5} \omega \beta^r - \omega(\omega \beta - r) = r \omega \beta - 1$$

$$\textcircled{6} r - r \beta + r \omega \beta - r \omega \rightarrow r \omega \beta - 1$$

$$\frac{r \omega \beta - 1}{r \omega \beta - 1} = \frac{r \omega}{\omega} = 1$$

②

$$\frac{r - 1}{r} = 0, 1$$

$$\frac{r + 1}{r} = 1, 2$$

$$r - r, r \omega = 0, 1$$

$$-1, \omega + r, r \omega = 0, 1$$

$$r \omega = 1, \omega$$

→ Chiffre
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$$|x_r - x_r| = \frac{\sqrt{\Delta}}{|a|} \rightarrow \frac{\sqrt{f(x_r) - f(x_0)}}{f(x_r) - f(x_0)} = \frac{f}{f} K$$

$$f(x_r) - f(x_0) = \frac{1}{2} K^r \rightarrow r \cdot K^r - 1 \cdot 0 = 1 \cdot K^r \rightarrow r \cdot K^r = 1 \cdot 0 \rightarrow K = \pm r$$

$$\left[\frac{K^r}{r} \right] \rightarrow \left[\frac{1}{r} \right] \rightarrow \left[\frac{1}{r} \right] = \varepsilon$$

③

$$\textcircled{4} \frac{r - \omega}{r} = -1 \quad \frac{\alpha + \beta}{r} = -1 \rightarrow \alpha + \beta = -r \quad \alpha^r + \beta^r \rightarrow (\alpha + \beta)^r - r \alpha \beta$$

$$\omega = f - r \alpha \beta \rightarrow \alpha \beta = \frac{-1}{r}$$

$$y = a(x - \alpha)(x - \beta)$$

$$y = a(x^r - (\alpha + \beta)x + \alpha\beta) \rightarrow a(x^r - r x - \frac{1}{r})$$

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

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

$$-x^r + \omega x + m = 0 \rightarrow m < \frac{a}{r}$$

④

$$\Delta = r \omega + 4m > 0 \rightarrow m > \frac{-r \omega}{4}$$

$$f(\frac{a}{r}) = -(\frac{a}{r})^r + \omega(\frac{a}{r}) + m \rightarrow \frac{-1}{r} + \frac{a \omega}{r} + m = \frac{a}{r} + m$$

$$\frac{a}{r} + m < 0 \rightarrow m < \frac{-a}{r}$$

$$\frac{-r \omega}{4} < m < \frac{-a}{r} \rightarrow -r, -\varepsilon, -\omega, -4$$

$$m \times r - 12x + 10m - 1 \rightarrow \frac{-b}{1a} \rightarrow \frac{12}{1m} = r \rightarrow m = r$$

$$12x - 12x + 12 \rightarrow f(r) = 12 - 12r + 12 \rightarrow y = r$$

$$a^r = \alpha \beta$$

$$x^r + r(a+1)x + ra - 1 = 0$$

$$a \text{ ضرب } r \rightarrow ra - 1$$

$$\alpha \beta = ra - 1$$

$$a^r = ra - 1$$

$$a^r \geq ra - 1 = 0$$

$$(a-1)r = 0$$

$$a = 1$$

$$x^r - vx^r - \omega = 0 \quad x^r = t$$

$$t^r - vt - \omega = 0 \quad t \rightarrow \frac{v \pm \sqrt{v^2 + 4\omega}}{2} \quad x = \frac{t \pm \sqrt{v^2 + 4\omega}}{2}$$

$$rP^r - r(0)P + r(0) = \omega 9 + v\sqrt{49}$$

$$P = \frac{-v \pm \sqrt{v^2 + 4\omega}}{2}$$

$$\rightarrow S = 0 \quad rP^r \rightarrow \frac{11\omega + 12\sqrt{49\omega}}{2} \rightarrow \omega 9 + v\sqrt{49}$$

$$0^1 \rightarrow \frac{x}{1K} = \frac{r}{K}$$

$$y \rightarrow \frac{x}{K} - 4$$

$$\left\{ \begin{array}{l} \frac{x}{K} - 4 = \frac{-1}{K} \cdot t \rightarrow \frac{x}{K} = r \\ K = 1 \end{array} \right.$$

$$\frac{1}{K} \cdot t = 4 - \frac{1}{K}$$

$$-m \times r + m \times 1 = -m - x \rightarrow -m \times r + m \times 1 - m - x + 1 = 0$$

$$-m \times r + x(m+1) + (m+1)$$

$$\Delta < 0$$

$$(m+1)(1 + \varepsilon m(m+1)) < 0$$

$$(m+1)(\omega m + 1) < 0$$

$$-1 < m < -\frac{1}{\omega}$$

مخرج مخرج نیست