

Date:

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$$x^r - \omega x + r = 0 \rightarrow \alpha^r - \omega \alpha + r = 0$$

$$\alpha\beta = r$$

$$\alpha + \beta = \omega$$

$$\frac{r\alpha + \beta^r}{\omega\beta^r} = \frac{r\alpha}{\omega\beta^r} + \frac{\beta^r}{\omega} = \frac{\alpha^r + \beta^r}{\omega} = \frac{(\alpha + \beta)^r - r\alpha\beta(\alpha + \beta)}{\omega} =$$

$$\frac{\omega^r - r\alpha\beta\omega}{\omega} = 19/6$$

$$\begin{vmatrix} -1, \omega \\ -r \end{vmatrix}, \begin{vmatrix} r \\ -r \end{vmatrix}$$

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

$$\frac{r-1, \omega}{r} \rightarrow \frac{-b}{ra} = \frac{1, \omega}{r}$$

-r

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

1, \omega

$$x^r + rkx + \omega = 0 \rightarrow \Delta = r^2k^r - r\omega = r(k^r - \omega)$$

مقدار $\left[\frac{k^r}{r}\right]$

$$\frac{\sqrt{\Delta}}{|a|} = \frac{r}{r}k \rightarrow rk^r - r\omega = \frac{14}{9}k^r \rightarrow \frac{r\omega}{9}k^r = r\omega \rightarrow k^r = 9 \rightarrow \left[\frac{k^r}{r}\right] = \left[\frac{9}{r}\right] = 4/6$$

$$A = \begin{pmatrix} r \\ -r \end{pmatrix} \quad B = \begin{pmatrix} -\omega \\ y \end{pmatrix}$$

$$\frac{-\Delta}{ra} = 1$$

-r

$$\alpha^r + \beta^r = \omega \rightarrow (\alpha + \beta)^r - r\alpha\beta = \omega \rightarrow r - r\alpha\beta = \omega \rightarrow \alpha\beta = \frac{-1}{r} \sim \frac{c}{a}$$

$$\frac{-b}{ra} = \frac{r-\omega}{r} \rightarrow \frac{-b}{ra} = -1 \rightarrow \frac{-b}{a} = -r$$

$$y = a(x^r + rx - \frac{1}{r}) \Rightarrow 1 = a(1 - r - \frac{1}{r}) = \frac{-r}{r} \alpha = 1 \rightarrow \alpha = \frac{-r}{r} \rightarrow c = \frac{-r}{r} \times \frac{-1}{r} = \frac{1}{r^2}$$

Scanned with

$$-x^r + \Delta x + m = 0$$

$$\alpha, \beta < \frac{q}{r} \quad \begin{array}{c} \alpha \quad \beta \\ - \quad + \quad - \end{array}$$

$$x = \frac{q}{r} \rightarrow -\left(\frac{q}{r}\right)^r + \Delta x \frac{q}{r} + m < 0 \quad -\Delta$$

$$= \frac{-\Delta}{r} + \frac{r\Delta}{r} + m < 0 \rightarrow m < \frac{-q}{r}$$

$$\Delta > 0 \Rightarrow r\Delta - r\Delta x + m > 0 \rightarrow r\Delta + rm > 0 \rightarrow m > \frac{-r\Delta}{r} \quad \frac{-r\Delta}{r} < m < \frac{-q}{r} \rightarrow \frac{-r\Delta}{r} < \frac{-q}{r} \rightarrow -r\Delta < -q \rightarrow r\Delta > q$$

$$y = m x^r - r x + \Delta m - 1 \quad y_{\min} = \frac{-\Delta}{r_a} = r \rightarrow -r r + r m r - r m = \Delta m \rightarrow -4$$

$$\rightarrow r m r - r m - r r = 0 \rightarrow \Delta m r - r m - r r = 0 \rightarrow \frac{-b \pm \sqrt{\Delta}}{r_a} = \frac{r \pm \sqrt{q + r r r r}}{1.0}$$

$$= \frac{r \pm r}{1.0} \rightarrow \frac{r r}{1.0}, \frac{-1}{1.0} \quad x = \frac{-b}{r_a} = \frac{r}{r} = r$$

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

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

$$x^r - V x^r - \Delta = 0 \quad t = x^r \rightarrow t^r - V t - \Delta = 0 \quad -A$$

$$r p^r - r s p + r s = r \quad t = \frac{-b \pm \sqrt{\Delta}}{r_a} = \frac{V \pm \sqrt{r q + r.}}{r} = V \pm \sqrt{r q}$$

$$r x (V + \sqrt{r q})^r = r x (r q + r q + r \sqrt{r q}) \quad \sqrt{t} = \sqrt{V \pm \sqrt{r q}} \rightarrow b_{\pm} = 0 = s$$

$$= \Delta q + V \sqrt{r q} \quad \sqrt{V + \sqrt{r q}} \times \sqrt{V + \sqrt{r q}} = \sqrt{(V + \sqrt{r q})^2} = \frac{-V \pm \sqrt{r q}}{r} = p$$

$$y = k x^r - r x - y \rightarrow S \left| \frac{-b}{r_a} \right| \Rightarrow S \left| \frac{r}{r} \right| \Rightarrow S \left| \frac{r k}{-r - r k} \right| \Rightarrow S \left| \frac{r k}{k} \right| \quad -9$$

$$-r \left(\frac{r}{k} \right) - r = \frac{-r + r k}{k} \rightarrow \frac{-1 - r k}{k} = \frac{-1 - r k}{k} \rightarrow \frac{-r + r k}{k} = 0 \rightarrow r k - r = 0 \rightarrow$$

$$S \text{ b d} \rightarrow k = r \Rightarrow \frac{-1 - r k}{k} = \frac{-1 - r r}{r} = -1$$

$$-mx^r + mx + 1 = -m - x$$

-10

$$mx^r + (-m-1)x + 1 - m = 0$$

$$\Delta < 0 \rightarrow -(m+1)^2 - 4m(1-m) < 0 \rightarrow m^r + 1 + 4m + 4m + 4m^r < 0$$

$$\rightarrow \Delta m^r + 4m + 1 < 0$$

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

$$\begin{array}{c} -1 \qquad -\frac{1}{\Delta} \\ \hline + \phi \quad - \quad \phi + \end{array}$$

$$m \in \left(-1, -\frac{1}{\Delta}\right)$$

منه