

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

$$\omega = \alpha + \beta, \alpha\beta = r$$

$$\beta(\omega - \beta) = r \quad \beta^r = \omega\beta - r$$

$$(\alpha + \beta)^r = r\omega = \alpha^r + \beta^r + r\alpha\beta \Rightarrow \alpha^r + \beta^r = r$$

$$\frac{\alpha^r + \beta^r}{\alpha\beta^r} = \frac{\alpha^r + \beta^r}{(\alpha + \beta)\beta^r} = \frac{\beta^r(\alpha^r + \beta^r)}{(\beta + r)\beta^r} \quad (1)$$

$$\frac{(\alpha + \beta)(\alpha^r + \beta^r - \alpha\beta)}{(\alpha + \beta)} = r - r = 0$$

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

$$-\frac{b}{ra} = \frac{r}{f}$$

$$\alpha + \beta = -\frac{b}{a} = \frac{r}{r}$$

$$x^r + rx + \omega = 0$$

$$\frac{\omega}{r} k^r = \omega \Rightarrow k^r = 9$$

$$\alpha - \beta = \frac{f}{r} k = \frac{\sqrt{\Delta}}{ra} = \sqrt{\Delta} \Rightarrow \sqrt{rk^r - r} = \frac{f}{r} k \Rightarrow rk^r - r = \frac{f^2}{r} k^r \Rightarrow k^r - \omega = \frac{f}{r} k^r$$

$$\left[\frac{9}{r}\right] = \left[\frac{f}{r}\right] = f$$

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

$$\alpha + \beta = -\frac{b}{a} = -r \Rightarrow \alpha^r + \beta^r + r\alpha\beta = f \Rightarrow r\alpha\beta = -1 \Rightarrow \alpha\beta = -\frac{1}{r} = \frac{c}{a}$$

$$-\frac{f}{ra} = 1 = \frac{-b^r + fac}{fa} = \frac{-fa^r + f^2\alpha + \frac{a}{r}}{fa} = \frac{-fa^r}{fa} + \frac{f^2\alpha}{fa} + \frac{a}{ra} = -\frac{fa^r}{fa} + \frac{f^2\alpha}{fa} + \frac{a}{ra} = -\frac{fa^r}{fa} + \frac{f^2\alpha}{fa} + \frac{a}{ra} = -\frac{fa^r}{fa} + \frac{f^2\alpha}{fa} + \frac{a}{ra}$$

$$\Rightarrow C = -\frac{f}{r} = \frac{1}{r}$$

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

$$x = \frac{-b \pm \sqrt{\Delta}}{ra} = \frac{\omega \pm \sqrt{\omega + fm}}{r} \Rightarrow \frac{\omega \pm \sqrt{\omega + fm}}{r} < \frac{9}{r}$$

$$\omega + \sqrt{\omega + fm} < 9 \Rightarrow ra + fm < 14 \Rightarrow m < \frac{9}{r} = -r/ra$$

$$\omega - \sqrt{\omega + fm} < 9 \Rightarrow -\sqrt{\omega + fm} < f \Rightarrow \sqrt{\omega + fm} > -f \Rightarrow \sqrt{\omega + fm} > 0 \Rightarrow \omega + fm > 0 \Rightarrow fm > -\omega \Rightarrow m > -\omega/f$$

$$\{9, -\omega, -f, -r\} \Rightarrow \frac{r}{r}$$

$$y = mx^r - rx + \omega m - 1$$

$$\min \left| -\frac{b}{ra} = \frac{1}{rm} \right|$$

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

$$1x^r - fm(\omega m - 1) = -\Delta m$$

$$\Rightarrow 1x^r - fm\omega m + fm = -\Delta m$$

$$r\omega - \omega m^r + m = -r\omega$$

$$\Rightarrow \omega m^r - fm - r\omega = 0 \Rightarrow m^r - fm - 1 = 0$$

$$(m - \omega)(m + r) = 0 \quad m = \frac{r}{\omega}, m = -\frac{1}{r} = -r/f$$

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

$$\alpha\beta = a^r = \frac{c}{a} \Rightarrow a^r = ra - 1 \Rightarrow a^r - ra + 1 = 0 \Rightarrow (a-1)^r = 0 \Rightarrow a = 1$$

$$x^r - vx^r - \omega = 0 \Rightarrow x^r = \frac{f}{r} \Rightarrow t^r - vt - \omega = 0$$

$$\Delta = f^2 - 4 \times 1 \times -\omega = 9$$

$$t = \frac{v \pm \sqrt{49}}{r} \Rightarrow \frac{v - \sqrt{49}}{r}$$

$$x = \pm \sqrt{\frac{v + \sqrt{49}}{r}}$$

$$S = 0 \quad p = -\frac{v - \sqrt{49}}{r}$$

$$rp^r - r^2sp + rs = \frac{f^2 + 49 + 1 \times \sqrt{49}}{r} = \omega + v\sqrt{49}$$

$$y = kx^r - rx - 9$$

$$y = -rx - 4 \Rightarrow -\frac{1}{k} = -f$$

$$-\frac{b}{ra} = \frac{f}{rk} = \frac{r}{k}$$

$$y = \frac{f}{k} - \frac{1}{k} - 9 = -\frac{f}{k} - 9$$

$$-\frac{1}{k} - f = -\frac{f}{k} - 9 \Rightarrow r = \frac{f}{k} \Rightarrow k = r$$

$$y = -\frac{f}{r} - 4 = -1$$

$$y = -mx^r + m\omega + 1$$

$$y = -m - \omega$$

$$-mx^r + m\omega + 1 = -m - \omega \Rightarrow mx^r - (m+1)\omega - (m+1) = 0$$

$$\Delta = 0 \Rightarrow (m+1)^r + fm(m+1) < 0 \Rightarrow (m+1)(\omega m + 1) < 0$$

$$-\frac{1}{\omega} = -\frac{1}{\omega} +$$

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

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