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$$\alpha^2 - \omega \alpha + \gamma = 0 \quad \frac{\alpha + \beta}{\omega \beta^2} = ? \quad \alpha + \beta = \omega \quad \alpha \cdot \beta = \gamma \quad (1)$$

$$\beta^2 - \omega \beta + \gamma = 0 \quad \frac{\alpha}{\omega \beta^2} + \frac{1}{\omega} \beta \rightarrow \frac{\alpha}{\omega} \times \frac{\omega - \beta}{\omega \beta - \gamma} + \frac{1}{\omega} \beta \cdot \frac{\beta}{\omega \beta - \gamma}$$

$$\frac{\alpha}{\omega} \times \frac{\omega - \beta}{\omega \beta - \gamma} + \frac{1}{\omega} (\omega \beta^2 - \gamma \beta) \rightarrow \frac{\gamma - \alpha \beta}{\omega (\omega \beta - \gamma)} + \frac{\gamma \beta - \gamma}{\omega (\omega \beta - \gamma)} \times \frac{\omega \beta - \gamma}{\omega \beta - \gamma}$$

$$\frac{\gamma \omega \beta - 19.}{\omega (\omega \beta - \gamma)} \rightarrow \frac{9 \omega (\omega \beta - \gamma)}{\omega (\omega \beta - \gamma)} = 19$$

$$\text{Crossed out equation}$$

$$\begin{cases} -f = 9a + 13b + c \\ -f = 2.22a - 1.2b + c \end{cases} \rightarrow 6.172a - 1.2b = 0 \rightarrow b = 1.2a$$

$$s = \frac{-b}{a} \rightarrow \frac{+1.2a}{a} = 1.2$$

$$\frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{f k^2 - 4}}{k} = \frac{f}{k} \rightarrow f k^2 - 4 = \frac{16}{9} k^2 \quad \frac{f}{9} k^2 = 4 \quad k^2 = 9$$

$$\text{Crossed out equation} \rightarrow \frac{-\omega + \gamma}{\gamma} = -1 \rightarrow \frac{-\gamma}{\gamma} = -1 \quad s = \frac{-b}{a} = -2 \quad \text{رأس} = \begin{vmatrix} -1 \\ 1 \end{vmatrix}$$

$$\text{Crossed out equation} \rightarrow y = a(n+1)^r + 1 \rightarrow y = a n^r + a + r a n + 1$$

$$\alpha^r + \beta^r = \omega \rightarrow s - 2p = \omega \rightarrow f - 2 \left(\frac{a+1}{a} \right) = \omega \quad \frac{-2a-2}{a} = 1 \rightarrow a = -\frac{2}{3}$$

$$\text{Crossed out equation} \rightarrow y = -\frac{2}{3} (n+1)^r + 1 \rightarrow -\frac{2}{3} + 1 = \frac{1}{3}$$

$$\omega \rightarrow \frac{-\omega \pm \sqrt{4\omega + 4m}}{-2} \rightarrow \left(\frac{-\omega - \sqrt{4\omega + 4m}}{-2} \right)^{x-2} \quad (2)$$

$$\omega + \sqrt{4\omega + 4m} < 9 \rightarrow \sqrt{4\omega + 4m} < 8 \quad 4\omega + 4m < 64 \rightarrow m < -\frac{9}{4}$$

$$\Delta > 0 \rightarrow 4\omega + 4m > 0 \rightarrow m > -\frac{4\omega}{4} \quad -\frac{4\omega}{4} < m < -\frac{9}{4}$$

$$\text{اعداد} \rightarrow -\frac{4\omega}{4} = -1 \rightarrow \text{مقدار}$$

$$m > 0 \quad \Delta < 0 \quad \Rightarrow \begin{cases} \frac{-b}{2a} \rightarrow \frac{1r}{2m} = \frac{r}{m} \\ \frac{-\sqrt{\Delta}}{2a} \quad \frac{r}{m} = \frac{r}{m} \end{cases} \quad \begin{aligned} w &= \frac{r}{m} - \frac{Vr}{m} + \omega m - 1 \\ \dot{w} &= \frac{\omega m^r - r}{m} \end{aligned} \quad (5) \quad \textcircled{1, 2, 5}$$

$$\omega m^r - r m - r = 0 \quad \frac{r \pm \sqrt{Vr^2}}{10} \rightarrow \begin{cases} r \\ -r, \epsilon \end{cases} \quad \checkmark \quad \checkmark \quad x_5 = \frac{-b}{2a} = \frac{1r}{2(1r)} = r$$

$$\alpha \cdot \beta = a^r \rightarrow r a - 1 = a^r \rightarrow a^r - r a + 1 = 0 \quad (a-1)^r = 0 \rightarrow a = 1 \quad (V) \\ \alpha + \beta = -r(a+1) \quad \alpha + \beta = -r(a-1) \quad \checkmark \quad \textcircled{2}$$

$$a^r = t \rightarrow t^r - Vt - \omega = 0 \quad \frac{V \pm \sqrt{V^2}}{r} \rightarrow a^r = \frac{V + \sqrt{V^2}}{r} \rightarrow a = \pm \sqrt{\frac{V + \sqrt{V^2}}{r}} \quad (1) \\ r p^r \rightarrow r x \left(\frac{V + \sqrt{V^2}}{r} \right)^r = \omega a + V \sqrt{V^2} \quad p = - \frac{V + \sqrt{V^2}}{r} \quad \checkmark \quad \textcircled{2}$$

$$J_p = \frac{-b}{2a} \rightarrow \frac{r}{2k} = \frac{r}{k} \rightarrow \frac{-1}{k} - r = \frac{r}{k} - \frac{1}{k} - r \rightarrow r = \frac{r}{k} \quad (9) \\ y = r m^r - r m - r \rightarrow r - r - r = -1 \quad \checkmark \quad \textcircled{2}$$

$$m a^r + m a + 1 \neq -m - a \quad m m^r - (1+m)m - 1 - m \neq 0 \quad (10) \\ \Delta < 0 \rightarrow (1+m)^r, (-r)(m), (-1-m) \quad (m^r + r m + r m + r m^r) < 0 \\ \omega m^r + r m + 1 < 0 \quad m = \frac{-r \pm \sqrt{r^2}}{10} \rightarrow \begin{cases} -r \\ -1 \end{cases} \\ -1 < m < -0.1r \quad \checkmark \quad \textcircled{2}$$