

$$a^r, r(a+1)a, r a - 1 = 0 \quad \checkmark$$

$$a + B = -r(a+1)$$

$$a^r = aB \rightarrow a^r = r a - 1, a^r r a + 1 = 0 \rightarrow (a-1)^r = 0 \Rightarrow \boxed{a=1}$$

$$-r - \sqrt{r}, a, -r + \sqrt{r}$$

$$a^r - \sqrt{a} a^r = 0 \rightarrow t^r - \sqrt{t} t = 0 \quad \checkmark$$

$$a^r s t \quad t^r s t + p = 0 \rightarrow s = \sqrt{t}, p = -\omega$$

$$mp^r - r s p + r s = r(r a) - r(-\omega)(\sqrt{t}) + r(\sqrt{t}) = \omega a + 1 a \omega + 1 r = \boxed{149}$$

$$y = K a^r f a - 9 \rightarrow \left(\frac{-b}{m} \right) \quad \frac{-b}{r a} = \frac{+f}{r K} \quad 9$$

$$y = -f a - f \quad \text{جواب} \quad -\Delta = \frac{14 - f(-9)(K)}{f K} = \frac{14 + 9 f K}{f K} = \frac{f + 9 K}{K} = \frac{f + 9(-9)}{\omega} = \frac{-9}{\omega}$$

$$\frac{f + 9 K}{K} = -f \left(\frac{f}{x K} \right) - f \rightarrow \frac{f + 9 K}{K} + \frac{f}{K} = -f \rightarrow \frac{9 K + 1 f}{K} = -f \rightarrow 9 K + 1 f = -f K \rightarrow 10 K = -1 f \rightarrow K = \frac{-1 f}{10} = \frac{-9}{\omega}$$

$$\frac{10 - 1 f}{\omega} = \frac{-1 f}{-9} = \frac{f}{9} = \frac{f}{K}$$

$$y = -m a^r + m a + 1 \quad -m a^r + m a + 1 = -m - a \quad 10$$

$$y = -m - a \quad m a^r + (-m-1)a - m - 1 = 0$$

$$\Delta \leq 0 \rightarrow (-m-1)^r - 4(m)(-m-1) \leq m^r, r m + 1 + f m^r + f m$$

$$\omega m^r + 9 m + 1 \leq 0$$

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

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

$$\alpha^r - \omega \alpha + \tau = 0 \quad \frac{\alpha + \beta^{\omega}}{\omega \beta^r} \quad \beta^r - \omega \beta + \tau = 0 \quad \beta^{\omega} = \epsilon \vee \beta - \tau_0 \quad 1$$

$$\alpha + \beta = \omega \rightarrow \alpha = \omega - \beta \quad \beta^r = \omega \beta - \tau \Rightarrow (\beta^r)^r$$

$$\alpha \cdot \beta = \tau$$

$$\alpha + \beta^{\omega} = \alpha + \epsilon \vee \beta - \tau_0 \rightarrow \epsilon(\omega - \beta) + \epsilon \vee \beta - \tau_0 = \tau_0 - \epsilon \beta + \epsilon \vee \beta - \tau_0 = \epsilon \vee \omega \beta - 19_0$$

$$\frac{\alpha + \beta^{\omega}}{\omega \beta^r} = \frac{\epsilon \vee \omega \beta - 19_0}{\omega \beta^r} = \frac{\epsilon \vee \omega \beta}{\omega \beta^r} - \frac{19_0}{\omega \beta^r} = \boxed{\frac{q_{\omega}}{\beta} - \frac{\tau_0}{\beta^r}} \quad \beta \text{ constant} \quad 5$$

$$\frac{\tau - 19_0}{\tau} = \frac{19_0}{\tau} = \frac{19_0}{\frac{19_0}{\tau}} = \frac{19_0}{\tau_0} = \frac{\tau}{\tau}$$

$$\alpha_s = \frac{\tau}{\tau}$$

$$\frac{-b}{\tau a} = \frac{\tau}{\tau} \quad \frac{-b}{a} = \boxed{\frac{\tau}{\tau}}$$

$$\alpha^r + \beta = \omega \quad y = (\alpha - \alpha)(\alpha - \beta) = \alpha^r - (\alpha + \beta)\alpha + \alpha \beta \quad 10$$

$$\alpha^r + \beta^r = (\alpha + \beta)^r - \tau \alpha \beta \rightarrow \omega = (\alpha + \beta)^r - \tau \alpha \beta$$

$$\begin{array}{c|c} \alpha & y \\ \hline -\omega & y \\ \hline \tau & y \end{array} \Rightarrow f(\tau) = f(-\omega) \quad \tau^r + \tau p + q = \tau \omega - \omega p + q \rightarrow q + \tau p = \tau \omega - \omega p$$

$$\omega = (-\tau)^r - \tau \alpha \beta \rightarrow \alpha \cdot \beta = -\frac{1}{\tau} \quad \tau p = 19 \rightarrow p = \tau$$

$$y = q = \alpha \cdot \beta = -\frac{1}{\tau} \Rightarrow \boxed{(0, -\frac{1}{\tau})} \quad \alpha + \beta = -\tau \checkmark$$

$$\alpha^r + \tau k \alpha + \omega = 0 \rightarrow |\alpha - \beta| = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{f k^r - \tau_0}}{1} = \sqrt{f k^r - \tau_0} \quad \text{فاصله} \quad 15$$

$$\sqrt{f k^r - \tau_0} = \frac{f}{\tau} k$$

$$\Rightarrow f k^r - \tau_0 = \frac{19}{q} k^r \rightarrow f k^r - \frac{19}{q} k^r = \tau_0$$

$$\frac{q}{\tau} = \epsilon \vee \omega$$

$$\frac{\tau_0}{q} k^r = \tau_0 \rightarrow k^r = q$$

$$\left[\frac{k^r}{\tau} \right] = \left[\frac{q}{\tau} \right] = \boxed{f}$$

برای

$$-\alpha^r + \omega \alpha + m = 0 \rightarrow \min \alpha^r - \omega \alpha - m = 0 \rightarrow \left(\frac{q}{\tau} \right)^r - \omega \left(\frac{q}{\tau} \right) + m > 0 \quad 20$$

$$\alpha \cdot \beta = \omega \quad \omega = \frac{q}{\tau} \rightarrow \frac{\omega}{\tau} < \frac{q}{\tau} \checkmark \quad \frac{11}{f} - \frac{\epsilon \vee \omega}{\tau} + m > 0$$

$$\Delta = f \omega - f m > 0 \rightarrow m \leq \frac{\tau \omega}{\tau} \quad m > \frac{q}{\tau}$$

$$\frac{q}{\tau} < m \leq \frac{\tau \omega}{\tau} \Rightarrow m = \tau, \text{ (ب) } \omega = 2.5$$

باب

$$y_s = \tau \quad y = m \alpha^r - 12 \alpha + \omega m - 1 \rightarrow m \left(\frac{q}{m} \right)^r - 12 \left(\frac{q}{m} \right) + \omega m - 1 = \frac{\tau \tau}{m} - \frac{12 \tau}{m} + \omega m - 1 \quad 25$$

$$\text{میشه} \frac{-b}{\tau a} = \frac{+12}{\tau m} = \frac{q}{m} \quad = -\frac{12}{m} + \omega m - 1 = \tau \checkmark$$

$$\frac{-12}{m} + \omega m - 1 = \tau \rightarrow \frac{-12}{m} + \omega m = \tau \rightarrow -12 + \omega m^2 - \tau m = 0$$

$$\Delta = 4 + 12 \tau_0 = 12 \tau_0 \quad m = \frac{\tau \pm \sqrt{12 \tau_0}}{10} \rightarrow m = \tau, m = -\frac{12}{\omega}$$

$$a = m > 0 \Rightarrow m = \tau$$

$$\alpha_s = \frac{q}{m} = \frac{q}{\tau} = \boxed{\tau}$$