

$$\alpha + B = \omega, \quad \alpha B = \gamma \quad B^{\gamma} = \omega B - \gamma, \quad B^{\omega} = \gamma B - \omega, \quad F\alpha = \gamma - FB$$

$$B^{\omega} = \gamma \gamma B - \gamma \omega$$

$$\frac{F\alpha + B^{\omega}}{\omega B^{\gamma}} = \frac{\gamma - FB + \gamma \gamma B - \gamma \omega}{\gamma \omega B - \omega} = \boxed{19}$$

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$S \rightarrow$ رأس سهمی $\gamma(x_s) = S_{\text{ریشه}} = -\frac{b}{a} \Rightarrow S_{\text{ریشه}} = \gamma\left(\frac{\gamma - 1/\omega}{\gamma}\right) = \boxed{1, \omega}$

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$$x_1 = m, \quad x_{\gamma} = m + \frac{\gamma}{\omega} k$$

$$S = -\gamma k = m + m + \frac{\gamma}{\omega} k \Rightarrow m = -\frac{\omega}{\gamma} k \rightarrow x_1 = -\frac{1}{\gamma} k, \quad x_{\gamma} = -\frac{\omega}{\gamma} k$$

$$P = \frac{\omega}{\gamma} k^{\gamma} = \omega \Rightarrow k^{\gamma} = \gamma$$

$$\left[\frac{k^{\gamma}}{\gamma}\right] = [k, \omega] = \boxed{\gamma}$$

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$$x_s = -\frac{b}{\gamma a} = \frac{\gamma - \omega}{\gamma} = -1 \Rightarrow \gamma a = b$$

$$y_s = -\frac{\Delta}{\gamma a} = -\frac{\gamma a^{\gamma} - \gamma a c}{\gamma a} \Rightarrow 1 = c - a \Rightarrow \gamma c = 1 \Rightarrow \boxed{c = \frac{1}{\gamma}}$$

$$\alpha^{\gamma} + B^{\gamma} = S^{\gamma} - \gamma p = \omega \Rightarrow (\gamma)^{\gamma} - \gamma \frac{c}{a} = \omega \Rightarrow \frac{c}{a} = -\frac{1}{\gamma} \Rightarrow -a = \gamma c$$

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$$m < \frac{\gamma}{\gamma} \quad (1) \quad f\left(\frac{\gamma}{\gamma}\right) = \left(\frac{\gamma}{\gamma}\right)^{\gamma} - \omega\left(\frac{\gamma}{\gamma}\right) - m \rightarrow m < -\frac{\gamma}{\gamma} \quad (2)$$

$$\Delta \geq 0 \Rightarrow m \geq -\frac{\gamma \omega}{\gamma} \quad (3) \quad (1) \cap (2) \cap (3) \Rightarrow -\frac{\gamma \omega}{\gamma} < m \leq -\frac{\gamma}{\gamma}$$

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$$x_5 = -\frac{b}{a} = \frac{1P}{m} \Rightarrow x_5 = \frac{P_0}{m}$$

$$P = \frac{KF}{m} - \frac{1KF}{m} + \omega m - 1 \Rightarrow m = \frac{P}{\omega}$$

$$\alpha \cdot B = a^P$$

$$b^P - (a^P C) > 0 \Rightarrow (a^P + 1a + (-1)a + P) > 0 \Rightarrow a^P + P > 0 \Rightarrow \alpha \cdot B > -P$$

$$P(a-1) > -P \Rightarrow a > -\frac{1}{P}$$

$$t^P - Vt - \omega = 0 \rightarrow t = \frac{V \pm \sqrt{49}}{P}$$

$$x^P = \frac{V + \sqrt{49}}{P} \Rightarrow \left. \begin{array}{l} x_1 = -\sqrt{\frac{V + \sqrt{49}}{P}} \\ x_2 = +\sqrt{\frac{V + \sqrt{49}}{P}} \end{array} \right\} \Rightarrow S = 0, P = -\frac{V + \sqrt{49}}{P}$$

$$P^2 - P^2 S + P^2 = \frac{49 + 49 + 14\sqrt{49}}{P} = \omega^2 + V\sqrt{49}$$

$$y_5 = -Fz - F = -\frac{14 + 4FK}{FK} \Rightarrow -F\left(\frac{P}{K}\right) - F = -\frac{F + 4K}{K} \Rightarrow \frac{F - 4K}{K} = -F$$

$$-FK = F - 4K \Rightarrow PK = F \Rightarrow K = P$$

$$y_5 = -\frac{\Delta}{Fa} = -\frac{14 + PA}{1} = -1$$

$$-mx^P + mx + 1 = -m - x \quad \leftarrow \text{معادله تقاطع}$$

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

$$\Delta < 0 \rightarrow [-(m+1)]^P - 4m[-(m+1)] < 0 \rightarrow (m+1)(\omega m + 1) < 0$$

$$-1 < m < -\frac{1}{\omega} \quad \leftarrow \text{میدان معین در این بازه وجود ندارد}$$