

$$x^r \cdot \omega x + r = 0 \quad -P = r \quad S = -\omega \quad B^r - \omega B + r = 0 \quad B^r = \omega B - r$$

$$\text{C/P} \rightarrow 9x + B^{\omega} \cdot 2 = \omega B^r = \omega (\omega B - r) = r\omega B - 10 \quad (1)$$

$$B^r = B \cdot B^r \rightarrow B (\omega B - r) = \omega B^r - rB \quad B^f = B \cdot B^r \rightarrow B (r\omega B - 10) = r\omega B^r - 10B$$

$$\rightarrow B^f = r\omega (\omega B - r) - 10 = 10\omega B - 99 \quad B^{\omega} = B \cdot B^f \rightarrow B (10\omega B - 99) = 10\omega B^r$$

$$B^{\omega} = 10\omega (\omega B - r) = 99 = 99\omega B - 99$$

$$\frac{99\omega B - 99}{10\omega B - 10} = \frac{\omega (99(\omega B - r))}{\omega (\omega B - r)} = 19$$

$$x_s = \frac{-1, \omega + r}{r} = \frac{1, \omega}{r} = \frac{r}{f}$$

$$r x_s = \frac{r}{r}$$

$$r_0 - 99 + 99\omega B - 99 = 99\omega B - 190 \rightarrow$$

در سمت چپ عرض : (2)

$$|x_r - x_1| = \frac{\sqrt{\Delta}}{|a|} = \sqrt{\Delta} = \sqrt{f k^r - r} = r \sqrt{k^r - \omega} \quad (3)$$

$$r \sqrt{k^r - \omega} = \frac{f}{r} k \rightarrow \sqrt{k^r - \omega} = \frac{rk}{r} \rightarrow k^r - \omega = \frac{f k^r}{a} \rightarrow k^r = 9$$

$$\left[\frac{k^r}{r} \right] = [f, \omega] = f$$

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

$$y_s = 1$$

$$y = a(x+1)^r + 1 = ax^r + rax + a + 1 \quad (4)$$

$$x^r + B = S^r - rP = (-r)^r - r \left(\frac{a+1}{a} \right) =$$

$$f - \frac{ra + r}{a} = 0 \rightarrow \frac{ra + r}{a} = -1 \rightarrow a = -\frac{r}{r}$$

$$a + 1 = \frac{1}{r}$$

Subject: ()

Date:

$$\alpha + \beta = \frac{-b}{a} = \omega \quad \alpha\beta = P = -m \quad \text{مختار } \alpha = \frac{-b}{2a} = \frac{-1}{-2} = \frac{\omega}{2} < \frac{q}{2}$$

$$\left(\frac{-q}{2}\right)^2 + \omega\left(\frac{q}{2}\right) + m > 0 \rightarrow 2\omega - f(-1)(m) = 2\omega + fm > 0 \quad fm > -2\omega \quad m > \frac{-2\omega}{f}$$

$$\frac{q}{2} < 0 \rightarrow -\frac{1}{2} < \frac{f\omega}{2} + m = \frac{q}{2} + m \rightarrow \frac{-q}{2} > m \quad \text{①} \cap \text{②}$$

$$-q, -\omega, -f, -2$$

$$-\frac{2\omega}{f} < m < \frac{-q}{2}$$

$$m > 0 \quad \min f = \frac{-D}{4a} = 2 \rightarrow \frac{-144 - fm(4m-1)}{4m} = 2 \quad \text{④}$$

$$\frac{4q - m(4m-1)}{m} = -2 \rightarrow 4q - 4m^2 + m = -2m$$

$$4m^2 - 3m - 4q = 0 \rightarrow \begin{cases} m = -1, f \text{ و } g \\ m = 2 \text{ و } g \end{cases}$$

$$\text{مختار } x = \frac{-(-12)}{2m} = \frac{12}{4} = 3$$

$$a^2 = \alpha\beta \rightarrow a^2 = 2a - 1 \rightarrow a^2 - 2a + 1 = 0 \rightarrow a = 1 \quad \text{⑤}$$

$$a = 1 \rightarrow x^2 + fx + 1 = 0 \quad \text{درج اول حقیقی}$$

$$x^2 - vx - a = 0 \rightarrow x^2 = \frac{v \pm \sqrt{v^2 + 4a}}{2} \quad x^2 = \frac{v + \sqrt{v^2 + 4a}}{2} \quad \text{⑥}$$

$$x_1, x_2 = \pm \sqrt{\frac{v + \sqrt{v^2 + 4a}}{2}} \rightarrow \begin{cases} S = x_1 + x_2 = 0 \\ P = x_1 x_2 = -\frac{v + \sqrt{v^2 + 4a}}{2} \end{cases}$$

$$2P^2 - 3SP + 1S = 2\left(\frac{v + \sqrt{v^2 + 4a}}{2}\right)^2 + 0 = 0 \rightarrow 0 = \omega^2 + v\sqrt{v^2 + 4a}$$

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

$$y_s = \frac{-\Delta}{f_a} = \frac{19 - 2rk}{fk} = \frac{f + rk}{k}$$

(9)

$$y = -f x - f \xrightarrow{\text{value of } x} -\frac{f + rk}{k} = -f \left(\frac{r}{k} \right) - f \xrightarrow{x(-k)} f + rk = f$$

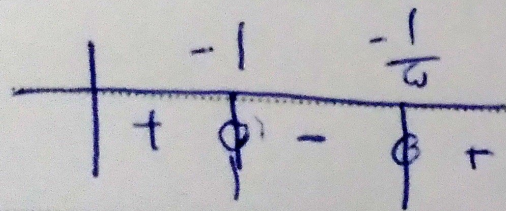
$$k = r$$

$$y_s = \frac{-f + rk}{k} \rightarrow \frac{-f + r \times r}{r} = \frac{-19}{r} = -1$$

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

(10)

$$\Delta C: (m+1)^r + f_m(m+1) \leq 0 \rightarrow (m+1)(m+1) \leq 0$$



$$m \in [-1, -\frac{1}{\omega}] \rightarrow \{-1\} \rightarrow \text{max}$$