

$$\alpha\beta = \gamma \quad \frac{f\alpha + \beta^r \times \beta}{\omega\beta^r \times \beta} = \frac{f\alpha\beta + \beta^r}{\omega\beta^r} = \frac{1 + \beta^r \times \alpha^r}{\omega\beta^r \times \alpha^r} = \frac{1\alpha^r + \gamma\beta^r}{f.}$$

$$\frac{\alpha^r + \beta^r}{\omega} = \frac{5^r - 3SP}{\omega} = \frac{(1 - \frac{b}{a})^r - 3(-\frac{bc}{ar})}{\omega} = \frac{\omega^r - 3 \times 7 \times \omega}{\omega} = 2\omega - 4 = 19$$

$$\text{مقدار } = \frac{3 + (-1/\omega)}{7} = 0.17\omega \quad \text{مقدار } x = \frac{\alpha + \beta}{7} = 0.17\omega \rightarrow \alpha + \beta = 1/\omega$$

$$\frac{\sqrt{\Delta}}{|a|=1} = \frac{f}{7}k \rightarrow \sqrt{fk^r - 2.} = \sqrt{\frac{14}{9}k^r} \rightarrow 34k^r - 18. = 14/9k^r$$

$$21k^r = 18 \rightarrow k^r = 9$$

$$\left[\frac{k^r}{f} \right] = \left[\frac{9}{7} \right] = f$$

$$ax^r + bx + C = y \rightarrow y_1 = y_r \rightarrow 9a + 3b + c = 2\omega a - \omega b + c$$

$$y = \frac{-\Delta}{fa} = \frac{(fa^r - faC)}{fa} = 1$$

$$1b = 14a$$

$$b = 7a$$

$$\frac{-fa(a-c)}{fa} = 1 \rightarrow a - c = -1$$

$$a + 1 = c$$

$$\rightarrow \frac{ax^r + 7ax + a + 1}{a} \rightarrow x^r + 7x + 1 + \frac{1}{a} = 0$$

$$\alpha^r + \beta^r = \omega \rightarrow 5^r - 7P = f - 7(1 + \frac{1}{a}) = \omega \rightarrow \frac{1}{a} = \frac{1}{7} - 1 \rightarrow a = -\frac{7}{6}$$

$$x=0 \rightarrow y=C = -\frac{7}{6} + 1 = \frac{1}{6}$$

نتیجه: $\begin{bmatrix} 0 \\ \frac{1}{6} \end{bmatrix}$

$$1) x_1 < \frac{9}{7} \rightarrow \frac{-\omega + \sqrt{2\omega + fm}}{-7} < \frac{9}{7} \quad \frac{\sqrt{2\omega + fm}}{-7} < \frac{f}{7} \rightarrow \text{همیشه برقرار}$$

$$x_2 < \frac{9}{7} \rightarrow \frac{-\omega - \sqrt{2\omega + fm}}{-7} < \frac{9}{7} \rightarrow \frac{\sqrt{2\omega + fm}}{7} < \frac{f}{7} \rightarrow 2\omega + fm < 14$$

$$fm < -9 \rightarrow m < -\frac{9}{f}$$

$$2) \Delta > 0 \rightarrow 2\omega + fm > 0 \rightarrow fm > -2\omega$$

$$m > -9/2\omega$$

$$1 \wedge 2 \rightarrow -\frac{5\omega}{f} < m < -\frac{9}{f} \rightarrow m = \{-3, -4, -5, -4\} \rightarrow \text{مقدار صحیح}$$

$$\frac{-\Delta}{fa} = 2 \rightarrow -\Delta = 1a \rightarrow -(1ff - fm(am-1)) = 1m$$

$$\frac{-1ff + 2 \cdot m^2 - 1m}{f} \rightarrow \omega m^2 - 3m - 24 = 0$$

$$y = 3x^2 - 12x + 12$$

$$xt = \frac{-b}{2a} = \frac{12}{4} = 3$$

$$\Delta = 9 + 2 \cdot 34 = 729 \Rightarrow \sqrt{729} = 27$$

$$m = \frac{3 \pm 27}{1} < \frac{-2/4}{3} \rightarrow m > \text{Min}$$

$$2a-1 = \alpha\beta$$

$$2a+2 = \alpha+\beta$$

$$\begin{cases} a^2 = \alpha\beta \\ b^2 = \alpha c \end{cases}$$

$$a^2 = 2a-1 \rightarrow a^2 - 2a + 1 = 0 \quad (a-1)^2 = 0$$

$$\boxed{a=1}$$

$$x^2 = t \rightarrow t^2 - 2t - 5 = 0$$

$$t = \frac{2 \pm \sqrt{49}}{2}$$

$$x^2 = t$$

$$\Delta = 49 + 20 = 69$$

$$2p^2 = 2 \left(\frac{-2 - \sqrt{69}}{2} \right) = -2 - \sqrt{69}$$

$$p = \frac{-2 - \sqrt{69}}{2}$$

$$S = 0 \leftarrow \lambda = \pm \sqrt{\frac{2 \pm \sqrt{69}}{2}}$$

$$y = -f \times \frac{f}{fk} - f = \frac{-1-fk}{k}$$

$$\frac{-\Delta}{fa} = \frac{-14-2fk}{fk} = \frac{-1-fk}{k} \rightarrow -14k - 2fk^2 = -32k - 14k^2$$

$$14k = 18k^2$$

$$2k = k^2 \rightarrow k^2 - 2k = 0 \leftarrow \begin{cases} k=0 \\ k=2 \end{cases}$$

$$y = \frac{-14-2f \times 2}{f \times 2} = \frac{-14-4f}{2} = -7-2f$$

$$-mx^2 + mx + 1 + m + x = 0 \leftrightarrow -mx^2 + mx + 1 = -m - x$$

$$-mx^2 + (m+1)x + 1 + m = 0 \rightarrow \Delta < 0$$

$$(m+1)^2 + fm(m+1) < 0$$

$$m^2 + 1 + 2m + fm^2 + fm < 0$$

$$\omega m^2 + 4m + 1 < 0 \rightarrow m = -1, -\frac{1}{\omega}$$

$$\begin{array}{c} -1 \quad -\frac{1}{\omega} \\ \hline + \quad 0 \quad - \quad 0 \quad + \end{array}$$

هیچ مقدار صحیح نیست