

$$\beta^{\omega} = \beta^{\omega} \times \beta^{\omega} \quad \alpha + \beta = -\frac{b}{a} = 0 \quad \alpha = \omega - \beta \quad \alpha = \omega - \beta \quad \alpha = \omega - \beta \quad \alpha = \omega - \beta$$

$$\beta(\omega\beta - 2) = \omega\beta - 2\beta \Rightarrow \omega(\omega\beta - 2) = 2\omega\beta - 10$$

$$\beta^{\omega} (2\omega\beta - 10) = 11\omega\beta - 50\beta - 6\beta + 20 \Rightarrow \boxed{\omega\beta - 210}$$

$$f(\alpha) = f(\omega - \beta) = 20 - 6\beta$$

$$\alpha = \frac{20 - 6\beta + \omega\beta - 210}{\omega(\omega\beta - 2)} = \frac{47\omega\beta - 190}{10\beta - 10} = \frac{19(2\omega\beta - 10)}{10\beta - 10} = 19$$

$$\alpha_5 = \frac{-11\omega + 20}{2} = \frac{20}{2} \Rightarrow \frac{\alpha + \beta}{2} = \frac{20}{2} \Rightarrow \alpha + \beta = 20$$

$$ax^2 + bx + c = 0 \quad -\frac{b}{2a} = -1 \Rightarrow b = 2a$$

$$\alpha_5 = \frac{-a + 2}{2} = -1 \quad \frac{c}{a} = -\frac{1}{2} \Rightarrow c = -\frac{a}{2}$$

$$\frac{\alpha + \beta}{2} = -1 \Rightarrow \alpha + \beta = -2$$

$$(\alpha + \beta) - (\alpha + \beta) = 2\alpha\beta \Rightarrow \alpha\beta = -\frac{1}{2}$$

$$-\frac{2}{a} \times \frac{2}{a} = 1 \Rightarrow a = -\frac{2}{10}$$

$$b = -\frac{4}{10} \quad c = \frac{1}{10}$$

$$-\frac{2}{10}x^2 - \frac{4}{10}x + \frac{1}{10} = 0 \Rightarrow x = \frac{1}{2}$$

$$r\sqrt{k^2 - a} = rk \rightarrow 4(k^2 - a) = 4k^2 \rightarrow \omega k^2 = 2a \rightarrow k^2 = 9$$

$$\alpha^2 + 2k\alpha + \omega = 0 \rightarrow \left[\frac{k^2}{r}\right] = \left[\frac{9}{2}\right] = 4$$

$$\alpha - \beta = \frac{\sqrt{\Delta}}{|a|} = \frac{\sqrt{4k^2 - 20}}{10} = \frac{2}{5}k$$

$$\left[\frac{k^2}{r} \frac{20}{v}\right] \in \{9\}$$

$$4k^2 - 20 = \frac{9}{2}k^2 \Rightarrow \frac{7}{2}k^2 = 20 \Rightarrow k^2 = \frac{40}{7}$$

$$-x^2 + \omega x + m > 0 \Rightarrow -\frac{11}{2} + \frac{6\omega}{2} + m > 0 \Rightarrow m > \frac{9}{2}$$

$$\alpha = \frac{-b \pm \sqrt{\Delta}}{2a} \rightarrow \frac{-\omega \pm \sqrt{2\omega - 4(-1)(m)}}{-2} < \frac{9}{2} \rightarrow \pm \sqrt{2\omega + 4m} < 4$$

$$0 < 2\omega + 4m < 16 \rightarrow -4 < m < -2\omega \rightarrow m \in \{-3, -2, -\omega, -4\} \rightarrow \text{مقدار صحیح}$$

$$m^2 x^2 - 12x + 2m - 1 = 0 \quad m^2 - 4m - 12 = 0$$

$$y_5 = -\frac{\Delta}{\epsilon_m} = \frac{-(12\epsilon - 40m^2 + 4m)}{\epsilon_m} = 0 \Rightarrow 12m^2 - 40m - 12 = 0$$

$$\Delta = \frac{c \pm \sqrt{b^2 - 4ac}}{2a} \Rightarrow 12m^2 - 40m - 12 = 0 \Rightarrow 3m^2 - 10m - 3 = 0$$

$$a^2 = \alpha \beta = \frac{c}{a} = 2a - 1$$

$$\hookrightarrow a^2 - 2a + 1 = 0 \Rightarrow (a-1)^2 = 0 \Rightarrow a = 1$$

$$x^2 - vx - \omega = 0$$

$$t^2 - vt - \omega = 0$$

$$\Delta = \epsilon^2 + 4\omega = 9\epsilon$$

$$x = \frac{v \pm \sqrt{9\epsilon}}{2} \Rightarrow \frac{v \pm 3\sqrt{\epsilon}}{2}$$

$$x = \pm \sqrt{\frac{v + \sqrt{9\epsilon}}{2}} \quad \begin{matrix} \nearrow s=0 \\ \rightarrow p = -\frac{v + \sqrt{9\epsilon}}{2} \end{matrix}$$

$$2p^2 - \epsilon s/p + r/s \Rightarrow \frac{4p^2 - \epsilon s + r}{s} \Rightarrow \frac{4p^2 - \epsilon s + r}{s}$$

$$y = Kx^2 - \epsilon x - s \quad \begin{cases} y = -\epsilon x - s \\ -\epsilon x \frac{\epsilon}{K} - \epsilon = -\frac{\Lambda}{K} - \epsilon \end{cases}$$

$$xs = \frac{\epsilon}{K} = \frac{\epsilon}{K}$$

$$y = Kx \times \frac{\epsilon}{K} - \epsilon x \frac{\epsilon}{K} - s \quad (xs = 1 \Rightarrow ys = \epsilon - \epsilon - s = -s)$$

$$\frac{\epsilon}{K} - \frac{\Lambda}{K} - s = -\frac{\epsilon}{K} - s = -\frac{\Lambda}{K} - \epsilon \Rightarrow \frac{\epsilon}{K} = \epsilon \Rightarrow K = 1$$

①

$$-m^2 x^2 + m^2 x + 1 = -m - x$$

$$m^2 x^2 (-m-1) x - 1 - m$$

$$\Delta < 0 \Rightarrow m^2 + 1 - 2m + \epsilon m + \epsilon m^2$$

$$2m^2 + 2m + 1 < 0 \Rightarrow \Delta < 0$$

$$-m^2 + m + 1 = -m - 2 \Rightarrow m^2 - (m+1) - (m+1) = 0 \Rightarrow m^2 - 2m - 2 = 0$$

$$\Delta < 0 \Rightarrow (m+1)^2 + 4(m)(m+1) < 0 \Rightarrow 5m^2 + 9m + 1 < 0$$

$$a+c=b \Rightarrow (m+1)(2m+1) < 0 \xrightarrow{\text{تعيين علامه}} \frac{-1}{+} \frac{-1/2}{-} \rightarrow -1 < m < -1/2 \rightarrow \text{منه عدد صحيح}$$