

$$\begin{aligned} x^2 - \omega x + p &= 0 \\ x^2 - \omega x + p &= 0 \\ \beta^2 - \omega \beta + p &= 0 \end{aligned}$$

$$\frac{(\alpha^2 + \beta^2)}{(\omega \beta^2)} \cdot \frac{f\alpha}{\omega \beta^2} + \frac{\beta^2}{\omega} = \frac{f\alpha^2}{\omega(\alpha \beta^2)} + \frac{\beta^2}{\omega} = \frac{\alpha^2 + \beta^2}{\omega} = \frac{s^2 - p}{\omega}$$

$$\frac{12\omega - p(1.0)}{\omega} = 19$$

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$$\frac{\sqrt{\Delta}}{|a|} = \frac{f}{p} K \quad \dots \rightarrow \Delta = b^2 - 4ac = 4K^2 - p_0$$

$$\frac{\sqrt{4K^2 - p_0}}{1} = \frac{f}{p} K \quad \dots \rightarrow 4K^2 - p_0 = \left(\frac{f}{p}\right)^2 K^2 \quad \dots \rightarrow \left(4 - \frac{f^2}{p^2}\right) K^2 - p_0 = 0$$

$$\frac{p}{4} K^2 = p_0 \rightarrow K^2 = 4$$

$$\left[\frac{K}{p}\right] = \left[\frac{q}{p}\right] = f$$

$$x_s = \frac{-\omega + p}{p} = -1 \quad y_s = 1 \quad y = a(x+1)^2 + 1 \quad \dots \rightarrow y = ax^2 + 2ax + a + 1 \rightarrow S = -\frac{b}{a} = \frac{-2a}{a} = -2$$

$$x^2 + \beta^2 = s^2 - 2p \quad \dots \rightarrow f - 2\left(\frac{a+1}{a}\right) = f - \frac{2a+2}{a} = \frac{fa - 2a - 2}{a} = \frac{2a-2}{a} = \omega$$

$$\frac{(-b)^2}{a^2} < 0$$

$$\omega a = 2a - 2 \rightarrow 2a = -2 \rightarrow a = -\frac{1}{p}$$

$$y_{\text{min}} = a + 1 = -\frac{1}{p} + 1 = \frac{1}{p}$$

$$-x^2 + \omega x + m = 0 \quad x_1 < x_2 < \frac{q}{p} \quad \dots \rightarrow \text{مجموعه جوابها (x=q/p) است. (x=q/p) هم در این مجموعه است.}$$

$$\hookrightarrow x = \frac{q}{p} \quad \dots \rightarrow -\frac{1}{2} + \frac{\omega}{p} + m < 0 \quad \text{علاوه بر این، (-1) است، پس جواب آن هم منفی است.}$$

$$-\frac{1+q}{p} + m < 0 \quad \dots \rightarrow m < \frac{1+q}{p} \quad (1)$$

$$\frac{q}{p} > \Delta > 0 \rightarrow 4\omega + 2m > 0 \rightarrow fm > -4\omega \rightarrow m > \frac{-4\omega}{f} \quad (2)$$

$$-\omega, -4, -f, -3, -2, -1, 0, 1, 2, 3, 4, \dots$$

$y = mx^p - 12x + \omega m - 1$ $y_s = \frac{-\Delta}{F_a} = 1 \rightarrow \frac{10m^p - Fm - 12F}{Fm} = 1 \rightarrow 10m^p - Fm - 12F = 1m \rightarrow 10m^p - 12m - 12F = 0$ $\Delta = b^2 - 4ac \rightarrow 12F - 4(10m^p - 12m) = 12F - 40m^p + 48m$ $\Delta = 9 - 4(\omega x - 12) = 9 - 4\omega x + 48 = 57 - 4\omega x$ $\sqrt{\Delta} = 2\sqrt{14}$ $m = \frac{12 \pm 2\sqrt{14}}{10}$	$m > 0 \leftarrow \text{...}$ $\dots \rightarrow \omega m^p - 12m - 12F = 0$ $\Delta = 9 - 4(\omega x - 12) = 57 - 4\omega x$ $\sqrt{\Delta} = 2\sqrt{14}$ $m = \frac{12 \pm 2\sqrt{14}}{10}$
$x^p + 2(a+1)x + 2a - 1 = 0$ $\alpha, \alpha, \beta \rightarrow \alpha \times \beta = a^p \rightarrow \frac{2a-1}{1} = a^p \rightarrow a^p - 2a + 1 = 0 \rightarrow (a-1)^p = 0 \rightarrow a=1$ $\frac{C}{a} = \dots$ $y = x^p + 2x + 1$	$\alpha, \alpha, \beta \rightarrow \alpha \times \beta = a^p \rightarrow \frac{2a-1}{1} = a^p \rightarrow a^p - 2a + 1 = 0 \rightarrow (a-1)^p = 0 \rightarrow a=1$ $\frac{C}{a} = \dots$ $y = x^p + 2x + 1$
$x^p - vx^p - \omega = 0$ $1p^p - 1^p s p^p + 1^p s = \omega + v\sqrt{49}$ $x^p = t \rightarrow t^p - vt - \omega = 0 \rightarrow \Delta = b^2 - 4ac = 49 - 4(1)(-\omega) = 49 + 4\omega = 49$ $t = x^p = \frac{v + \sqrt{49}}{2} \rightarrow x = \pm \sqrt{\frac{v + \sqrt{49}}{2}}$ $t = \begin{cases} \frac{v + \sqrt{49}}{2} \\ \frac{v - \sqrt{49}}{2} \end{cases} \times 00 \pm$ $S=0$ $P = -\frac{v + \sqrt{49}}{2} \rightarrow p^p = \frac{11 + 12\sqrt{49}}{2} = \frac{\omega + v\sqrt{49}}{2} \rightarrow 1p^p = \omega + v\sqrt{49}$	$1p^p - 1^p s p^p + 1^p s = \omega + v\sqrt{49}$ $x^p = t \rightarrow t^p - vt - \omega = 0 \rightarrow \Delta = b^2 - 4ac = 49 - 4(1)(-\omega) = 49 + 4\omega = 49$ $t = x^p = \frac{v + \sqrt{49}}{2} \rightarrow x = \pm \sqrt{\frac{v + \sqrt{49}}{2}}$ $t = \begin{cases} \frac{v + \sqrt{49}}{2} \\ \frac{v - \sqrt{49}}{2} \end{cases} \times 00 \pm$ $S=0$ $P = -\frac{v + \sqrt{49}}{2} \rightarrow p^p = \frac{11 + 12\sqrt{49}}{2} = \frac{\omega + v\sqrt{49}}{2} \rightarrow 1p^p = \omega + v\sqrt{49}$
$y = kx^p - Fx - 7 \rightarrow x_s = \frac{-b}{F_a} = \frac{-F}{Fk} = \frac{1}{k}$ $\Delta = 49 - 4(-7k) = 49 + 28k$ $y = -Fx - F \rightarrow -F\left(\frac{1}{k}\right) - F = \frac{-F-4K}{K} \rightarrow \frac{-1}{k} - F = \frac{-F-4K}{K} \rightarrow -1 - Fk = -F - 4K \rightarrow Fk = F - 4K \rightarrow k = 1$ $y_s = \frac{-F-12}{2} = \frac{-12}{2} = -6$	$y_s = \frac{-\Delta}{F_a} = \frac{-(12+28k)}{Fk} = \frac{-F-4K}{K}$ $\Delta = 49 - 4(-7k) = 49 + 28k$ $y = -Fx - F \rightarrow -F\left(\frac{1}{k}\right) - F = \frac{-F-4K}{K} \rightarrow \frac{-1}{k} - F = \frac{-F-4K}{K} \rightarrow -1 - Fk = -F - 4K \rightarrow Fk = F - 4K \rightarrow k = 1$ $y_s = \frac{-F-12}{2} = \frac{-12}{2} = -6$
$y = -mx^p + mx + 1$ $y = -m - x$ $y = -mx^p + (m+1)x + 1 + m$ $ME(-1, -\frac{1}{\omega}) \rightarrow \dots$	$y = -mx^p + mx + 1$ $y = -m - x$ $y = -mx^p + (m+1)x + 1 + m$ $(m+1)^p - F(1+m(-m)) = m^p + 1 + 2m + Fm + Fm^p = \omega m^p + 4m + 1 < 0$ $m^p + 4m + \omega = 0 \rightarrow \begin{cases} x = -\frac{1}{\omega} = -\frac{1}{\omega} \\ x = -\frac{\omega}{\omega} = -1 \end{cases}$