

$$\begin{aligned} \frac{-b}{2a} &= \Delta = \alpha + \beta & \frac{c}{a} &= 2 = \alpha \times \beta \\ P^1 &= \Delta B - 2 & B^1 &= B(P^1) = \beta(\Delta B - 2) = \Delta(\Delta B - 2) \\ & & B^2 &= B(B^1) = 1 \cdot \Delta B - 4 \\ 19(2\Delta B - 10) & & B^3 &= B(B^2) \rightarrow B(1 \cdot \Delta B - 4) \Rightarrow \frac{2\Delta B - 4 + 19\Delta B - 20}{2\Delta B - 10} \\ & & & = 19 \end{aligned}$$

$$\begin{aligned} \frac{-1/5 + 3}{2} &= 0,75 \quad \text{میانگین طول دو ریشه طول محور تقارن منبسط} \\ \frac{x_1 + x_2}{2} &= 0,75 \Rightarrow x_1 + x_2 = 1,5 \end{aligned}$$

$$\begin{aligned} x_1, x_2 &= \frac{-b \pm \sqrt{\Delta}}{2a} = \frac{-2K \pm \sqrt{4K^2 - 20}}{2} = -2 \pm \sqrt{K^2 - 5} \\ x_1 &= -2 + \sqrt{K^2 - 5} \\ x_2 &= -2 - \sqrt{K^2 - 5} \\ x_1 - x_2 &= 2\sqrt{K^2 - 5} = \frac{4}{3}K \\ \sqrt{K^2 - 5} &= \frac{2}{3}K \Rightarrow \frac{4}{9}K^2 = 5 \Rightarrow K^2 = 9 \end{aligned}$$

$$\begin{aligned} \frac{-5 + 3}{2} &= -1 = \frac{-b}{2a} \Rightarrow b = 2a \\ x_1 + x_2 &= \alpha + \beta = 2 & \alpha^2 + \beta^2 &= (\alpha + \beta)^2 - 2\alpha\beta \Rightarrow \Delta = 4 - 2\alpha\beta \\ y &= \alpha x^2 + bx + c \quad \left(\frac{-10}{2} \right) \Rightarrow 1 = -\alpha + c \quad c = 1 + \alpha \quad \frac{1 + \alpha}{\alpha} = -\frac{1}{2} \Rightarrow \alpha = -\frac{2}{3} \end{aligned}$$

$$\begin{aligned} \frac{-b \pm \sqrt{\Delta}}{2a} &\leq \frac{a}{2} \Rightarrow -5 \pm \sqrt{25 + 4m} \leq \pm \sqrt{25 + 4m} \leq 4 \\ 25 + 4m &\leq 16 \Rightarrow m \leq -\frac{9}{4} = -2,25 \\ m &\leq -\frac{9}{4} = -2,25 \end{aligned}$$

$$\frac{-\Delta}{fa} = 2 \rightarrow -\Delta = 1a \rightarrow -b' + fa = 1a \rightarrow -1f + fm - fm = 1m$$

$$2om^2 - 12m - 1ff = 0 \rightarrow 2om^2 - 12m - 39 = 0 \rightarrow (m-15)(m+12) = 0$$

$$m = \frac{15}{2} \text{ or } -\frac{12}{2}$$

$$\text{والباقى} = \frac{-b}{fa} = \frac{12}{4} = 2$$

$$x^2 + 2(a+1) + 2a - 1$$

$$\frac{-b + \sqrt{\Delta}}{2a} = x_1 = -a - 1 + \sqrt{a^2 + 2}$$

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$$x_2 = -a - 1 - \sqrt{a^2 + 2}$$

$$\Delta < 0$$

$$a^2 = a^2$$

$$a^2 = (a-1 + \sqrt{a^2 + 2})(-a-1 - \sqrt{a^2 + 2}) \rightarrow a^2 - 2a + 2 = 0$$

$$x^2 + 2 - vt - \Delta = 0$$

$$\frac{-b \pm \sqrt{\Delta}}{2a} = \frac{v \pm \sqrt{49}}{2} = x = \frac{v \pm \sqrt{49}}{2}$$

$$S = x_1 + x_2 = 0$$

$$D = \frac{-v - \sqrt{49}}{2}$$

$$x_{\text{فلس}} = -\frac{b}{fa} = \frac{f}{fk} = \frac{1}{k} \rightarrow y_{\text{فلس}} = -\frac{\Delta}{fa} = \frac{-14 - 2fk}{fk} = \frac{-f - 2k}{k}$$

$$\frac{-f - 2k}{k} = \frac{-1}{k} - f = \frac{-1 - fk}{k} = -1 - fk = -f + 2k$$

$$2k = f \rightarrow k = 2$$

$$y_{\text{فلس}} = \frac{-f - 12}{2} = -1$$

$$y = y \rightarrow -m - x = -mx^2 + mx + 1 \rightarrow -mx^2 + (m+1)x + m + 1$$

$$\Delta < 0 \rightarrow m^2 + 2m + 1 - f(-m)(m+1) < 0$$

$$\frac{-1}{2} - \frac{1}{2}$$

$$2m^2 + 4m + 1 < 0 \rightarrow m^2 + 2m + \frac{1}{2} < 0$$

$$-1 < m < -\frac{1}{2}$$

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$$(m+2)(m+1) < 0 \rightarrow m = -1, -\frac{1}{2}$$