

$$y = d(x-h)^2 + k$$

$$y = d(x+1)^2 + 9 = d(x^2 + 2x + 1) + 9 = dx^2 + 2dx + d + 9 =$$

$$f(x) \rightarrow 9d + 9d + d + 9 = 1$$

$$14d + 9 = 1$$

$$\Rightarrow 14d = -8$$

$$\Rightarrow d = -\frac{1}{7}$$

$$-\frac{1}{7}x^2 - x + 1\frac{1}{7} = -\frac{1}{7}x^2 - x + \frac{14}{7}$$

$$x^2 + mx + m + 9 = 0 \quad \Delta > 0 \quad -5 > 0 \quad -p > 0$$

$$\Delta > 0 \rightarrow b^2 - 4ac > 0 \rightarrow m^2 - 4(m+9) > 0 \rightarrow m^2 - 4m - 36 > 0$$

$$\frac{x}{y} = \frac{-r \pm \sqrt{r^2 - 4 \cdot 1 \cdot (-f)}}{1 \pm \phi - \phi + 1} \quad x > 12 \quad x < -f$$

$$\frac{(m-12)(m+4)}{14}$$

$$s > 0 \rightarrow -\frac{b}{a} > 0 \rightarrow -\frac{m}{1} > 0 \rightarrow m > 0 \Rightarrow m < 0 \quad p > 0 \rightarrow \frac{c}{a} > 0 \rightarrow \frac{m+9}{1} > 0 \Rightarrow m+9 > 0 \Rightarrow m > -9$$

$$-9 < m < -f$$

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

$$p = \frac{c}{a} = \frac{2-m}{1} =$$

$$s = -\frac{b}{a} = -\frac{2m-1}{1} = \frac{1}{1-2m} \rightarrow -fm + 2m^2 + 2 - m = 9$$

$$2m^2 - fm + 2 - m = 9$$

$$2m^2 - 5m + 2 = 9$$

$$2m^2 - 5m - 7 = 0 \quad (m-7)(m+1) = 0$$

$$x^2 - x - f = 0 \quad s = 1 \quad p = -f$$

$$x_1^2 + \frac{1}{x_2} \quad x_2^2 + \frac{1}{x_1}$$

$$s_{جد} = x_1^2 + x_2^2 + \frac{1}{x_1} + \frac{1}{x_2} = (s^2 - 2sp) + \frac{x_1 + x_2}{x_1 \cdot x_2}$$

$$\Rightarrow s_{جد} = (1 - 2 \cdot 1 \cdot (-f)) + \frac{1}{-f} = 1 + 2f - \frac{1}{f} = \frac{\delta 1}{f}$$

$$p_{جد} = (x_1^2 + \frac{1}{x_2})(x_2^2 + \frac{1}{x_1})$$

$$= x_1^2 x_2^2 + \frac{1}{x_1 x_2} + x_1^2 + x_2^2 = -4f + 9 - \frac{1}{f}$$

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

$$s_{جد} = \frac{\delta 1}{f} \quad p_{جد} = -\frac{2f 1}{f}$$

$$x^2 - sx + p = 0 \Rightarrow x^2 - \frac{\delta 1}{f}x - \frac{2f 1}{f} = 0$$

$$x^2 - \delta 1 x - 2f 1 = 0$$

$$+ \sqrt{2x} (\sqrt{2x} + \frac{1}{\sqrt{2x}} + 1) (\sqrt{2x} - 1) = \sqrt{2x}$$

$$(t^2 + \frac{1}{t^2} + 1)(t^2 - 1) = 2t$$

$$t^2 + \frac{1}{t^2} + 1 = \frac{t^2 + t^2 + 1}{t^2}$$

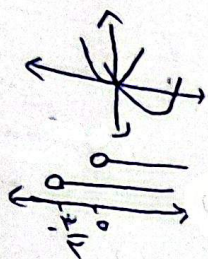
$$\frac{(t^2 + \frac{1}{t^2} + 1)(t^2 - 1)}{t^2} = 2t \quad \frac{t^2 - 1}{t^2} = 2t$$

$$t^2 = t^2 - 1$$

$$t^2 - 2t - 1 = 0 \quad t = k \quad k^2 - 2k - 1 = 0 \quad k = 1 \pm \sqrt{2} = t = x \Rightarrow x = 1 \pm \sqrt{2}$$

$$\rightarrow \text{جواب} = 2$$

$$\begin{aligned} p &= q \cdot p_q \rightarrow qx + r = 0 & q - p_q \\ S &= -\frac{b}{a} = p_q = \frac{c}{a} = \frac{x}{\frac{1}{2}} \Rightarrow x = \frac{x}{\frac{1}{2}} \Rightarrow x = \frac{1}{\frac{1}{2}} \\ a &= -2 & = q + p_q = p_q \rightarrow \frac{1}{\frac{1}{2}} \rightarrow p_q = \frac{1}{\frac{1}{2}} = 2 \Rightarrow a = 2 \\ (1 - (-1)) &= 14 \end{aligned}$$



$\Delta > 0 \rightarrow b^2 - 4ac > 0 \Rightarrow (x+rd)^2 = 0 \Rightarrow x+rd = 0 \Rightarrow x = -rd$
 $\Delta > 0 \rightarrow (x+rd)^2 > 0$
 $a \in \mathbb{R} - \{-\frac{r}{d}\} \Rightarrow \frac{-b}{a} > 0 \Rightarrow \frac{-r-rd}{a} > 0$

x	$-\frac{r}{d}$	0
y	$-\phi + \frac{r}{d}$	$-$

 $\boxed{\Delta > 0}$

$$y = -x^2 + ax - r \quad x_s = -\frac{b}{2a} = -\frac{a}{2} = -1 \Rightarrow a = 2$$

$$y = -x^r - rx + b \quad y = x^r + rx - r \rightarrow x^r + rx - r = 1$$

$$-x^2 - rx + b = 1$$

$$-x^T - \gamma X + b - 1 = 0$$

$$x^2 + 1x + 1 - b = 0$$

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$$x = -1 \pm \sqrt{1 - 1} \quad \text{مردمان}$$

$$x = -1 \pm \sqrt{1 - (1-b)} = \frac{-1 \pm \sqrt{1-b}}{1} = -1 \pm \sqrt{b} \rightarrow \sqrt{b} = 2 \Rightarrow b = 4 \quad \text{مردمان}$$

$$\textcircled{1} \text{ If } x = \frac{a}{r} \text{ then } ax + b = 0 \quad a + \frac{1}{r} - \beta + \frac{1}{r} - \left(a + \frac{1}{r} + \beta + \frac{1}{r} \right) = a + \beta + 1 = \frac{a}{r} \quad r = \frac{c}{a} = \frac{b}{r}$$

$$\begin{aligned} \text{Or } ax^r + ax - y &= 0 \quad \text{--- (1)} \\ \text{--- (2) } a - B &= a + B = -\frac{b}{a} = -\frac{a}{ra} \\ \text{--- (3) } P &= S = \frac{y}{a} = -x \\ \frac{a}{r} - \frac{-a}{ra} &= 1 \quad \frac{a^r + a}{ra} = 1 \quad ra = a^r + a \\ (a + \frac{1}{r})(P + \frac{1}{r}) &= aB + \frac{1}{r}a + \frac{1}{r}B + \frac{1}{r^2} \\ &= P + \frac{1}{r}S + \frac{1}{r} = -x + \frac{-1}{r} + \frac{1}{r} = -x \end{aligned}$$

$$yx^r + x - y = 0 \rightarrow \textcircled{v}$$

$$\left[\frac{db}{x} \right] = \left[\frac{-9 \times 1}{x} \right] = \left[-\frac{9}{7} \right] = -2$$

$$x^r + 4x + m = 0 \quad x^r + 4x + m = x^r + rx - rm$$

$$F_x + F_m = 0$$

$$w - (-1) = \boxed{f}$$

$$\Rightarrow f(x+m) = 0$$

$$x + m = 0$$

$x = m$

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$$\begin{matrix} \uparrow & \uparrow \\ \beta & \gamma \\ (x+\beta)(x-\gamma)=0 \end{matrix}$$

$$m = \Delta \begin{cases} x^2 + px - 1a = 0 \\ x^2 + 4x + a = 0 \\ (x + a)(x + 1) = 0 \end{cases}$$