

$$y = \left(\frac{-1}{r}\right)x^r + x + r \quad x=r \quad \Delta = 1+r = r$$

$$\frac{-1}{r\alpha - r} = r \quad r\alpha - r = -1$$

$$r\alpha = r \rightarrow \alpha = \frac{r}{r}$$

$$\frac{-1 \pm r}{-r} = \boxed{+r} \quad \checkmark$$

(2) -1

$$f(x) = mx^r - \alpha x + m$$

x_1	x_2
-	+

$$I \cap II \rightarrow \boxed{\frac{0}{r} < m < 0} \quad \checkmark \quad (2)$$

$$m < 0 \quad II$$

$$r\alpha - r m^r > 0 \rightarrow r\alpha > r m^r \rightarrow \frac{r\alpha}{r} > m^r \rightarrow -\frac{0}{r} < m < \frac{0}{r} \quad I$$

$$x_1 = \frac{r+\sqrt{\Delta}}{r} \quad x_2 = \frac{r-\sqrt{\Delta}}{r}$$

$$\Delta = r$$

$$P = \frac{r}{9}$$

$$x^r - \alpha x + r$$

$$x^r - rx + \frac{r}{9}$$

$$\rightarrow 9x^r - 18x + r = 0 \quad (2)$$

$$rx^r - \alpha x + m + r = 0$$

$$r\alpha^r + B^r = 1r$$

$$\alpha^r + B^r = \frac{r}{r} - rP$$

$$B^r = 1r - m - \alpha^r \rightarrow r\alpha^r + 1r - m - \alpha^r = 1r$$

$$r\alpha^r - m = -r \rightarrow m = r\alpha^r + r \quad \alpha + B = r \quad B = r - \alpha$$

$$\alpha B = \frac{m+r}{r} \rightarrow \alpha B = \frac{r\alpha^r + r}{r} \rightarrow \alpha B = \alpha + r \rightarrow r\alpha - \alpha^r = \alpha + r$$

$$\boxed{m=r} \leftarrow m = r\alpha^r + r \leftarrow r = B, 1 = \alpha$$

$$\alpha^r - r\alpha + r = 0$$

$$\delta(r, 9) \quad ax^r + bx + c = y \quad c = a$$

$$\frac{-b}{ra} = r \rightarrow \boxed{b = -ra}$$

$$x=r \rightarrow \frac{-b}{r} + rb + a = 9 \rightarrow b + a = 9$$

$$\boxed{a=-1} \quad \boxed{b=r}$$

$$-x^r + rx + a = y$$

$$x_1 = -1$$

$$x_2 = +a$$

x_1	x_2
-	+

$$\boxed{-1 < x < a} \quad \checkmark$$

$$ax^r - vx + 9B = 0 \quad B > 0 \quad \frac{1}{\alpha} + \frac{1}{B} = ? \rightarrow \frac{\alpha+B}{\alpha B} \rightarrow \frac{\frac{v}{9}}{\frac{9}{\alpha B}} = \frac{v}{9B} = \frac{v}{r} \quad \checkmark \quad (2)$$

$$B^r\alpha - vB + 9B = 0 \rightarrow \alpha B^r + rB = 0 \rightarrow B(\alpha B + r) = 0$$

$$\alpha + B = \frac{v}{\alpha} \rightarrow \frac{v\alpha}{\alpha^2} = \frac{v}{\alpha} \quad v\alpha^r = v \times 9^r \quad 9\left(\frac{B}{\alpha}\right) + r = 0 \rightarrow \frac{B}{\alpha} = -\frac{r}{9} \quad B = -\frac{r}{9}\alpha$$

$$\alpha = \pm r \rightarrow \boxed{\alpha = -r} \quad \boxed{B = \frac{r}{9}} \quad \checkmark$$

$$\frac{1}{\alpha} = \frac{v}{9}$$

$$x' + mx - ym = 0 \quad x' - m\beta = \Lambda \quad x + \beta = ?$$

$$\xrightarrow{x=\beta} \beta' + m\beta - ym = 0 \rightarrow m\beta = -\beta' + ym \quad \beta' + (m - y)\beta = \Lambda$$

$$\boxed{\cancel{x} + y} \checkmark \quad m' + ym - \Lambda = 0$$

$$\Delta = \beta + y\beta = \beta y$$

$$\frac{-y \pm y}{y} = -1 \times m \quad \Delta < 0 \quad \text{جذبات}$$

$$mx' + \epsilon x + \frac{m}{r} + y = f(x)$$

$$y \Delta = \Lambda \quad \Delta = 1y - \frac{(m)(\frac{m}{r} + y)}{-ym - y\Lambda m}$$

(1)

$$\frac{-\Delta}{\epsilon m} = \Lambda \quad y \Delta = -\Delta \rightarrow m = -\frac{\Delta}{\epsilon y} \rightarrow \frac{-1y + ym' + y\Lambda m}{\epsilon y} = m$$

$$\frac{-\Lambda + m' + 1\epsilon m}{1y} = m \quad m' + 1\epsilon m - \Lambda = 1ym \rightarrow m' - ym - \Lambda = 0$$

$$\frac{y \pm y}{y} = -1 \times \checkmark \quad + f \times \times$$

$$-\epsilon x' + \epsilon x + \Delta = f(x)$$

$$\Delta = 1y + \Lambda 0 = 9y$$

$$\frac{-1 + 1\sqrt{y}}{y}$$

$$f_{\text{min}} = -\epsilon x' + \epsilon x + y \dots \rightarrow \begin{cases} x = -1 \\ x = y \end{cases} \checkmark \quad \text{کامیاب است!}$$

$$f(x) = A(x - x_0)' + y_0 \rightarrow f(x) = A(x - y)' + y \quad \boxed{x=a} \quad \epsilon A + y = f \quad (1.75)$$

$$-\frac{1}{r} x' + yx - y + y \rightarrow -\frac{1}{r} x' + yx + r$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\alpha + \beta}{\alpha\beta} = \frac{+r}{-\Lambda} = \boxed{-\frac{1}{r}}$$

$$\boxed{A = -\frac{1}{r}}$$

$$x' - (\epsilon a + \epsilon)x + (ra' + ya + r) = 0 \quad x_1 = y$$

(1.5)

$$f - \Lambda a - \Lambda + ra' + ya + r = 0 \rightarrow ra' - ra - 1 = 0 \rightarrow -\frac{1}{r} \quad \text{اینم درست!}$$

$$x' - \Lambda x + 1yx = 0$$

$$(x - y)(x - y)$$

(9) ✓

$$a = -\frac{1}{r} \rightarrow rx' - \Lambda x + r = 0 \quad \begin{cases} x = y \\ x = \frac{y}{r} \end{cases}$$