

17, 17, 17

المصفوفة

$y = (a-1)x^r + x + r \xrightarrow{\text{نقطة}} x=r \quad x_0 = r$ ①

$x = \frac{-b}{ra} = r \rightarrow \frac{-1}{r(a-1)} = r \rightarrow -1 = r(a-1) \rightarrow -1 = ra - r$ ②

$a = \frac{r}{\epsilon} \rightarrow y = -\frac{1}{\epsilon}x^r + x + r$

$x_0 \rightarrow 0 = -\frac{1}{\epsilon}x^r + x + r \rightarrow -\epsilon x^r + \epsilon x + 1r \rightarrow \boxed{x=4 \text{ و } 0}$
 $\rightarrow x = -r \text{ و } \epsilon$

$f(x) = mx^r - dx + m \quad m = ?$ ②

x	x_1	x_r
$f(x)$	-	+

$\Delta > 0, m < 0$ ③
 $b^r - 4ac > 0 \rightarrow r^2 d - 4\epsilon m^r > 0 \rightarrow m^r < \frac{rd}{4\epsilon}$
 $-\frac{d}{r} < m < \frac{d}{r}$ if $m < 0 \Rightarrow m = (-\frac{d}{r}, 0)$

$x_1 = \frac{r - \sqrt{d}}{r}, x_r = \frac{r + \sqrt{d}}{r}$ ③

$P = (\frac{r - \sqrt{d}}{r}) \times (\frac{r + \sqrt{d}}{r}) \Rightarrow \frac{\epsilon}{9} \quad S = \frac{r - \sqrt{d}}{r} + \frac{r + \sqrt{d}}{r} = 2$ ④

$\rightarrow x^r - Sn + P = 0 \rightarrow x^r - rx + \frac{\epsilon}{9} \rightarrow 9x^r - 1\epsilon x + \epsilon = 0$

$rx^r - \epsilon x + m + r = 0 \quad \alpha \neq \beta, r\alpha^r + \beta^r = 1r \quad m = ?$ ④

$r\alpha^r + \beta^r = 1r \rightarrow r\alpha^r + (\alpha^r + \beta^r) = 1r$

$\left. \begin{aligned} & \xrightarrow{\epsilon} r\alpha^r + 1r - m - r = 1r \\ & r\alpha^r = 1\epsilon - m - r \end{aligned} \right\} 1\epsilon - r - m + 1r = 1r \rightarrow m = \epsilon$ ⑤

$\alpha\beta = \frac{m+r}{r} \rightarrow \frac{\epsilon\alpha + r}{r} = \alpha + 1 \rightarrow \beta = \frac{\epsilon\alpha + 1}{\alpha} \rightarrow \beta = r$

$\alpha + \beta = \frac{\epsilon\alpha + 1}{\alpha} + \frac{\alpha^r}{\alpha} = \frac{\epsilon^r + r\alpha + 1}{\alpha} = \epsilon \rightarrow \alpha = 1 \rightarrow m = \epsilon$

شروط
الحد

$$S(r, q) \quad y_0 = d \quad n > 0 \quad ? \quad (5)$$

$$\left. \begin{aligned} y &= a(n-c)^r + q \\ y &= a(n) + d \end{aligned} \right\} a = -1$$

$$y = -n^r + \varepsilon n + d$$

$$-n^r + \varepsilon n + d > 0 \quad \begin{array}{c|c|c} n & -1 & d \\ y & -1 & - \end{array} \rightsquigarrow (-1, d)$$

$$\alpha n^r - \nu n + q\beta = 0 \quad \beta > 0 \quad \frac{1}{\alpha} + \frac{1}{\beta} = ? \quad (6)$$

$$\underbrace{S = \frac{\nu}{\alpha}}_{\alpha + \beta} \quad \underbrace{\rho = \frac{q\beta}{\alpha}}_{\alpha + \beta} \rightarrow q\beta = \alpha^r \beta \rightarrow \alpha = \pm r$$

$$\text{if } \alpha = r \rightarrow \alpha + \beta = \frac{\nu}{\alpha} \rightarrow \beta = \frac{-\nu}{r} \quad \cup \cup \varepsilon$$

$$\text{if } \alpha = -r \rightarrow \alpha + \beta = \frac{-\nu}{\alpha} \rightarrow \beta = \frac{r}{r} \quad \cup \cup$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = -\frac{1}{r} + \frac{r}{r} = \frac{\nu}{q}$$

$$n^r + mn - \Gamma m = 0 \quad \alpha^r - m\beta = \Lambda \quad \frac{\alpha}{\alpha_1} + \frac{\beta}{\alpha_2} = ? \quad (7)$$

$$S = -m \quad \rho = -\Gamma m$$

$$\alpha^r = \nu m - m\alpha \quad \alpha^r m\beta = \Lambda \quad \alpha + \beta = -m$$

$$\beta = \frac{-\Gamma m}{\alpha} \rightarrow \alpha^r + \frac{\Gamma m^r}{\alpha} = \Lambda \rightarrow \alpha^r + \Gamma m^r - \Lambda \alpha = 0$$

$$\nu m + m^r = r$$

$$m = -r \quad D < 0$$

$$m = r \quad D > 0$$

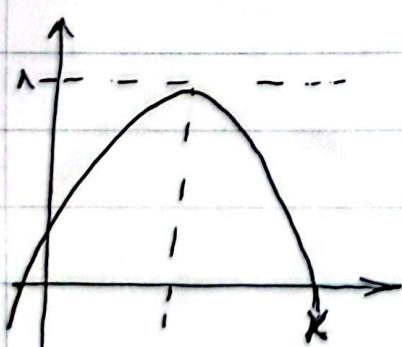
$$S = -m = -r$$

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

$$\alpha^r + \Gamma \left(\frac{\alpha^r}{r - \alpha} \right)^r - \Lambda \alpha = 0 \rightarrow \alpha \approx 1/r \quad \left. \begin{aligned} m &\leq r \\ m &\geq r \end{aligned} \right\}$$

$$\alpha + \beta = -m \rightsquigarrow \alpha + \beta \leq (-r)$$

$$f(n) = mn^r + \varepsilon n + \frac{m}{r} + \nu \rightarrow \frac{d}{dn} f(n) = 0 \rightarrow m < 0 \quad (8)$$



$$\left. \begin{aligned} -\frac{\Delta}{\varepsilon \alpha} &= \Lambda \rightarrow \frac{-b^r + \varepsilon \alpha c}{\varepsilon \alpha} = \Lambda \\ -14 + \varepsilon m \left(\frac{m}{r} + \nu \right) &= \Lambda \end{aligned} \right\}$$

$$m = \frac{-\Gamma \nu \cup \cup}{\varepsilon \cup \cup} \quad m = \varepsilon \cup \cup \varepsilon$$

$$f(n) = -r n^r - \Lambda n + q$$

$$0 = +n^r + \varepsilon n - r \rightarrow \Delta = r\Lambda$$

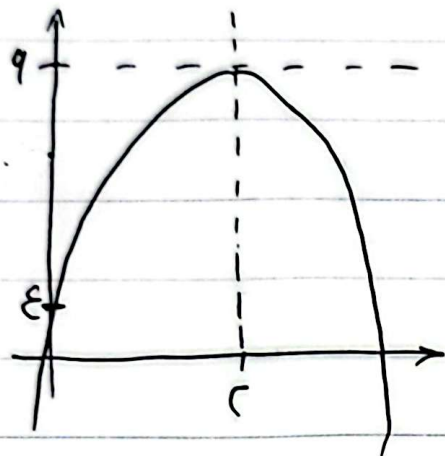
$$n_1 = -r \pm \sqrt{\nu}$$

$$-r \pm \sqrt{\nu} \quad \text{DAT.}$$

$$f(n) = -r n^r + \varepsilon n + q$$

$$\alpha = r, -1 \quad k = r$$

الطريق الثاني
= سبيل



(9)

$$y = a(x-h)^2 + k = a(x-c)^2 + q$$

$$\varepsilon = a(\varepsilon) + q \quad \text{لما } a = -\frac{1}{c} \quad (5)$$

$$y = -\frac{1}{c}x^2 + cx + \varepsilon$$

$$p = -\frac{1}{a} \quad \leftarrow \quad \text{لما } \varepsilon = \varepsilon$$

$$\text{مجموع الجذور} \Rightarrow \frac{1}{x_1} + \frac{1}{x_2} \rightarrow \frac{x_1 + x_2}{x_1 x_2} = \frac{S}{P} = \left(-\frac{1}{c}\right)$$

$$x^2 - (\varepsilon a + \varepsilon)x + (ca^2 + qa + c) = 0 \quad \alpha = c \quad \beta = ? \quad (10)$$

$$\hookrightarrow \varepsilon - \frac{1}{c}a - \frac{1}{c} + (ca^2 + qa + c) = 0 \quad (5)$$

$$ca^2 - \frac{1}{c}a - \frac{1}{c} = 0 \rightarrow a = 1 \rightarrow x^2 - \frac{1}{c}x + \frac{1}{c} \quad \begin{matrix} \nearrow n=c \\ \searrow n=c \end{matrix}$$

$$\hookrightarrow a = -\frac{1}{c} \rightarrow x^2 - \frac{1}{c}x + \frac{\varepsilon}{c} \quad \begin{matrix} \nearrow n=c \\ \searrow n=c \end{matrix}$$

$$\left\{ \begin{array}{l} \beta = c \leftarrow a = 1 \\ \beta = \frac{c}{\varepsilon} \leftarrow a = -\frac{1}{c} \end{array} \right.$$