

$$\text{ex } A \begin{vmatrix} -1 \\ 9 \end{vmatrix} \rightsquigarrow y_1 = ax^r + bx + c \quad B \begin{vmatrix} r \\ 1 \end{vmatrix} \rightsquigarrow y_2 = a(x+1)^r + 9 \rightsquigarrow 1 = 14a + 9 \rightarrow 14a = -8 \rightarrow a = -\frac{4}{7}$$

$$y_2 = -\frac{4}{7}(x+1)^r + 9 = \left(-\frac{x^r}{7} - x - \frac{1}{7}\right) + 9 = -\frac{x^r}{7} - x - \frac{1}{7} + 9 = y_2$$

$$x^2 + mx + m + 4 = 0$$

$\textcircled{1} \frac{-b}{a} > 0 \Rightarrow \frac{-m}{r} > 0 \Rightarrow -m > 0 \Rightarrow m < 0 \quad \textcircled{2} \frac{c}{a} > 0 \Rightarrow \frac{m+4}{r} > 0 \Rightarrow m+4 > 0 \Rightarrow m > -4$
 $\Delta \Rightarrow m^2 - c(r)(m+4), m^2 - 12m + 48 > 0 \Rightarrow (m-4)(m+4) > 0 \Rightarrow \frac{-1 \pm \sqrt{1+16}}{2 \pm 2} \Rightarrow (-\infty, -4) \cup (4, +\infty)$
 $\Rightarrow -4 < m < 4$

$$r_m^r + (r-m-1)r + r-m = 0 \quad \begin{matrix} -\alpha \\ \beta \end{matrix} \quad \frac{-b}{a} = \frac{a}{c} \sim \frac{-r-m+1}{r} \sim \frac{r}{r-m} \quad (A.S.R.) \quad -r$$

$$\frac{-b}{a} = \frac{-r-m+1}{r} \quad \wedge \quad \frac{a}{c} = \frac{r}{r-m} \quad q = \underbrace{(-r-m+1)(r-m)}_{-r-m+1m^r+1-m} \Rightarrow q = r_m^r - \alpha m + r$$

$$r_m^r - \alpha m - v = 0$$

اسی $m^2 - 4m - 14 = 0 \rightarrow (m-v)(m+r) = 0 \rightarrow \langle m = \frac{v}{r}, -1 \rangle$

$$m = \frac{v}{r} \rightarrow \Delta = r \cdot y - f(r) \cdot \left(-\frac{v}{r} \right), \Delta f > 0 \quad \} \quad m = -1 \rightarrow \Delta z = g - f(r) \cdot (r), \Delta - r \cdot v < 0 \quad X$$

$$\langle m = \frac{V}{r} \rangle$$

$$\begin{aligned} x_1^r - x_1 - K &= 0 \quad \left(x_1^r + \frac{1}{x_1}, x_1^r + \frac{1}{x_1} \right) \quad \text{---} \\ x_1 + x_1 &= 1 \quad \left(x_1^r = x_1 + K, x_1^r = x_1 + \epsilon \right) \end{aligned}$$

$$\left. \begin{aligned} x_1^r &= x_1(x_1^r) = x_1(x_1 + \epsilon) = x_1^r + \epsilon x_{1,1} = (x_1 + \epsilon) \epsilon x_{1,1} = 0 x_1 + \epsilon \\ x_1 &= 0 x_1 + \epsilon + \frac{1}{x_1} \quad / \quad q_1 = 0 x_1 + \epsilon + \frac{1}{x_1} \end{aligned} \right\} \quad \text{A}$$

$$L \quad \alpha_1 + \alpha_2 \cdot o(\alpha_1 + \alpha_2) + \Lambda + \underbrace{\left(\frac{1}{\alpha_1} + \frac{1}{\alpha_2}\right)}_{\frac{1}{\alpha_1 \alpha_2}} = \Lambda + \Lambda - \frac{1}{\alpha} - 2\alpha \frac{\alpha_1}{\alpha} > \left(\frac{-b}{a}\right)'$$

$$\frac{20}{-1} \left(\frac{-f}{x_r} \right) + \frac{f_0}{-1} x_r + 0 + \frac{f_0}{-1} x_1 + 14 + \frac{0}{\frac{x_r}{-1}} + 0 + \frac{0}{\frac{x_1}{-1}} - \frac{1}{f} = -100 + f_0 + 0 + 14 - 1 + 0 - \frac{1}{f} = \frac{-241}{f} = \left(\frac{S}{f} \right)$$

$$\leadsto \ll y = \kappa x^r - \alpha |x - r| \gg$$

$$\left(\sqrt[3]{2x^2} + \frac{1}{\sqrt[3]{2x^2}} + 1\right)(\sqrt[3]{2x^2} - 1) = 2\sqrt[3]{2x^2} \Rightarrow \sqrt[3]{2x^2} - \sqrt[3]{2x^2} + 1 - \frac{1}{\sqrt[3]{2x^2}} + \sqrt[3]{2x^2} = 2 \Rightarrow$$

$$\left(x^{\frac{r}{r-1}} = x^{-\frac{r}{r-1}} - r x^{\frac{1}{r-1}} = 0 \right) x^{\frac{r}{r-1}} \rightarrow x^r - 1 - r x = 0 \rightarrow x^r - r x - 1 = 0$$

$$\Delta: b^2 - 4ac: f = f(-1)(1): \Delta \rightarrow x = \frac{-b \pm \sqrt{\Delta}}{2a} = \frac{r \pm r\sqrt{r}}{r} = \frac{1 \pm \sqrt{r}}{1} \Rightarrow x_1 = 1 + \sqrt{r}$$

$$x_1 + x_5 = 1 + \sqrt{p} - \sqrt{p} + 1 = 2 \quad / \quad \frac{-b}{a} = \frac{-(-r)}{1} = r$$

Subject:

Year:

Month:

Date:

()

$$rx^r - ax + r = 0$$

$$\frac{-b}{a} = \frac{a}{r} (x_1 + x_2) \quad / \quad \frac{c}{a} = \frac{r}{r} (x_1 \cdot x_2) \quad / \quad x_1 = rx_2 \quad -y$$

$$rx_2 + x_2 = \frac{a}{r} \rightarrow rx_2 = \frac{a}{r} \rightarrow x_2 = \frac{a}{r^2}$$

$$rx_2 \cdot x_2 = \frac{r}{r} \rightarrow rx_2^2 = \frac{r}{r} \rightarrow x_2^2 = \frac{r}{r} \rightarrow x_2 = \pm \frac{r}{r} \quad / \quad \frac{r}{r} = \frac{a}{r^2} \rightarrow r = ra \rightarrow \boxed{a=1}$$

$$\frac{-r}{r} = \frac{a}{r^2} \rightarrow -r = ra \rightarrow \boxed{a=-1}$$

$$|1 - (-1)| = 2 \Rightarrow$$

$$y = ax^r + (r+ra)x \quad (y' = a \cdot r \cdot x^{r-1} + r+ra) \quad \rightarrow a > 0 \quad \begin{cases} \text{increasing} \\ \text{decreasing} \end{cases} \quad -y$$

$$y' = \frac{-b}{a} > 0 \rightarrow \frac{-r-ra}{a} > 0 \quad / \quad \frac{-r}{-r+ra} = 0 \Rightarrow \frac{r}{r-ra} < 0 \rightarrow \text{صحيح وجوابه}$$

$$-r-ra = 0 \rightarrow -r = ra \rightarrow a = -\frac{r}{r}$$

$$a = 0 \rightarrow y = rx \quad \text{ليس دالة تربيعية}$$

$$y = x^r + rx - r \quad / \quad y = -x^r - rx + b \rightarrow \frac{-a}{r} = \frac{r}{-r} \Rightarrow \boxed{a=r} \quad -1$$

$$x = 1, y = 1 \rightarrow y_1 = y_r \rightarrow x^r + rx - r = -x^r - rx + b \rightarrow rx^r + rx - r = b$$

$$x^r + rx - r = 1 \rightarrow x^r + rx - r = 0 \rightarrow (x^r + rx = r) \quad \left[r(x^r + rx - 1) = b \right] \Rightarrow \boxed{b=r}$$

$$ab = rxr = \underline{1}$$

$$rx^r - ax + b = 0 \quad \begin{cases} \alpha + \frac{1}{r} = z \\ \beta + \frac{1}{r} = y \end{cases} \quad \left\{ \begin{array}{l} rx^r + ax - y = 0 \\ \beta \end{array} \right. \quad \left[\frac{ab}{r} \right] \quad 7$$

$$z+y = \frac{a}{r} \quad / \quad x+\beta = \frac{-a}{rx} = -\frac{1}{r} \rightarrow (z+y) = (\alpha+\beta) + r(\frac{-1}{r}) \Rightarrow \frac{a}{r} = \frac{1}{r} + 1 = \frac{1}{r} \Rightarrow \underline{a=1}$$

$$zy = \frac{b}{r} \quad / \quad \alpha\beta = -r \rightarrow zy = (\alpha+\frac{1}{r})(\beta+\frac{1}{r}) \Rightarrow zy = \alpha\beta + \frac{1}{r}(\alpha+\beta) + \frac{1}{r^2} = -r - \frac{1}{r} + \frac{1}{r^2}$$

$$zy = \frac{b}{r} = -r \Rightarrow \underline{b=-r} \quad \left\{ \left[\frac{ab}{r} \right] = \left[\frac{-4(1)}{r} \right] = \left[-\frac{4}{r} \right] = -\underline{r} \right.$$

$$x^r + 4x + m = 0 \quad , \quad x^r + rx - rm = 0 \rightarrow a = \dots \quad -10$$

$$a^r + 4a + m = 0 \rightarrow m = -a^r - 4a \quad \left\{ \begin{array}{l} a^r + ra - rm = 0 \\ a^r + ra - r(-a^r - 4a) = 0 \end{array} \right.$$

$$ra^r + r0a = 0 \rightarrow ra(a+0) = 0 \rightarrow a = 0 \quad / \quad -a$$

$$m = -a^r - 4a \quad a=0 \rightarrow m=0 \Rightarrow \textcircled{1} x^r + 4x + 0 = 0 \rightarrow (x+1)(x+0) = 0 \rightarrow x = -1, -0$$

$$\textcircled{2} x^r + rx - 10 = 0 \rightarrow (x+0)(x-r) = 0 \rightarrow x = -0/r \quad \underline{-0} = \dots$$

$$|r - (-1)| = \underline{r} \rightarrow \text{الجاب}$$