

$$b) \frac{-b}{va} = -1 \rightarrow b = va \mid n = -1 \rightarrow a - b + c = 9 \rightarrow$$

$$-a + c = 9 \mid n = 0 \rightarrow a + \frac{a}{b} + \frac{a}{c} = 21 \rightarrow 14a + a = 21 \rightarrow a = -\frac{1}{7} \rightarrow b = va = -\frac{1}{7} \rightarrow c = 9 - a = \frac{64}{7}$$

$$y = -\frac{1}{x} \mid n = -1 + \frac{1}{x} \mid c = 9 - \frac{1}{x} = \frac{1}{x}$$

$$3) \int_0^1 (x^m + m^m + m + x) dx = 0 \rightarrow m^m - 1 + m - \frac{1}{2} = 0 \rightarrow m^m + m - \frac{3}{2} = 0$$

$$Im \in (-\infty, -1) \cup (1, \infty) \mid S = -\frac{m}{2} > 0 \rightarrow m < 0 \mid III \frac{m^2 + 4}{2} > 0 \rightarrow m > -4$$

$$I, II, III \rightarrow -4 < m < -1$$

$$3) \text{ for } n = (x^m - 1) \mid n + x - m = 0 \rightarrow x^m + 1 - x - m = 0 \mid x^m + 1 - x - m = 0$$

$$\frac{-x \pm \sqrt{x^2}}{2} \rightarrow \frac{-1 \pm \sqrt{1 + 4x}}{2} \rightarrow Im \in (-\infty, -1 - \frac{\sqrt{1 + 4x}}{2}) \cup (-1 + \frac{\sqrt{1 + 4x}}{2}, \infty)$$

$$4) \alpha \beta \int_0^1 \frac{1}{x} dx = -\frac{1}{\alpha} \ln x \Big|_0^1 = -\frac{1}{\alpha} \ln 1 = 0$$

$$I \cup II \rightarrow \frac{x}{2}$$

$$5) n^m - n - \frac{1}{2} = 0 \rightarrow 5 = 1 + 0 \mid n = -\frac{1}{2} \mid n^m + n + \frac{1}{n} = \frac{1}{n} \mid n = (n + n^m) - \frac{1}{n} = \frac{1}{n} + \frac{1}{n} = \frac{2}{n}$$

$$z = -\frac{1}{2} \mid y = n^m - \frac{1}{2} \mid n = -\frac{1}{2}$$

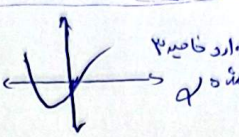
$$6) \sqrt[n]{n^m} = t \rightarrow (t + \frac{1}{t})^{n-1} = t^{n-1} - \frac{1}{t} \rightarrow \sqrt[n]{n^m} = \frac{1}{\sqrt[n]{n^m}}$$

$$\rightarrow \frac{1}{\sqrt[n]{n^m}} = t \mid n^m = t^n \rightarrow n^m = 1 \mid n = 1 \rightarrow n^m = 1 \mid n = 1$$

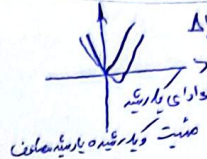
④  $wn^r - an + \xi = 0, \alpha = r\beta \rightarrow \rho = \frac{\xi}{w} \rightarrow r\beta^r = \frac{\xi}{r} \rightarrow \beta^r = \frac{\xi}{r} \rightarrow \beta = \sqrt[r]{\frac{\xi}{r}}$

$S \left\{ \begin{array}{l} \textcircled{1} \frac{1}{w} = \frac{a}{w} \rightarrow a = 1 \\ \textcircled{2} -\frac{1}{w} = \frac{a}{w} \rightarrow a = -1 \end{array} \right\} \quad \Delta = (-1)^2 - 4$

$d \left\{ \begin{array}{l} r \\ -r \end{array} \right.$

⑤  $y = an^r + (w + ra)n \rightarrow \Delta = 0 \Rightarrow$    $\rightarrow (ra + w)^r = 0 \rightarrow a = -\frac{w}{r}$

$\# S \neq 0 \rightarrow \frac{-w - ra}{a} = 0 \rightarrow -\frac{w}{r} = a \in \mathbb{R}, \mathbb{Z}, \mathbb{N} \rightarrow \emptyset$



$y = -n^r - rn + b, y = n^r + an - r \rightarrow -\frac{b}{ra} = \frac{r}{-r} \Rightarrow -\frac{a}{r} \rightarrow a = r$

$\left. \begin{array}{l} 1 = -n^r - rn + b \\ 1 = n^r + rn - r \end{array} \right\} r = -r + b \rightarrow b = 2 \left\{ ab = ra = 2 \right.$

$ran^r + an - c = 0 \rightarrow S = -\frac{a}{ra} = -\frac{1}{r} \rightarrow \rho = -\frac{c}{r} = -w$

$rn^r - an + b = 0 \rightarrow S = a + \frac{1}{r} \Rightarrow \beta + \frac{1}{r} = -\frac{1}{r} + \frac{1}{r} + \frac{1}{r} = -\frac{(-a)}{r} \Rightarrow a = 1$

$\rho = (a + \frac{1}{r})(\beta + \frac{1}{r}) = a\beta + \frac{1}{r}(a + \beta) + \frac{1}{r^2} = \frac{+b}{r} \rightarrow -w + \frac{1}{r}(-\frac{1}{r}) + \frac{1}{r^2} = \frac{+b}{r}$

$b = -c \left\{ ab = -ca = -c \right\} -c \rightarrow \left[ \frac{ab}{c} \right] = \left[ -\frac{w}{r} \right] = -r$

$n^r + 4n + m = 0 \rightarrow S = -4 \rightarrow \frac{m}{a} = -4 - \beta \left\{ n^r + rn - pm = 0 \right.$

$S = -r \rightarrow a = -r - \delta \left\{ \mathbb{R}, \mathbb{Z} \rightarrow -4 - \beta = -r - \delta \Rightarrow \delta - \beta = 2 \right.$