

$$-1 \leq \frac{\mu a + 1}{\omega} \leq 1 \rightarrow -1 \leq \mu n + 1 \leq 1 \rightarrow -1 \leq \mu n \leq 1 \rightarrow -1 \leq n \leq 1$$

(1)

$$\mu n - 1 \xrightarrow{-1} \mu(-1) - 1 = -1$$

$$\left(\mu, \mu(\mu) - 1 = 1 \right) \rightarrow D = [-1, 1]$$

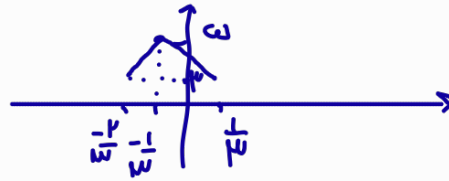
$$\frac{\mu n + 1}{\mu} \xrightarrow{n=-1} -1$$

$$\xrightarrow{n=\mu} \omega \rightarrow -1 \leq n < \omega \rightarrow -1 \leq 1 - \mu n < \omega \xrightarrow{-1} -1 \leq -\mu n < \mu$$

$$D = \left(-\frac{\mu}{\omega}, \frac{\mu}{\omega}\right] \leftarrow -\frac{\mu}{\omega} < n \leq \frac{\mu}{\omega} \quad \text{نکته}$$

$$n=0 \rightarrow y=1$$

$$\mu n + 1 = 0 \rightarrow \mu n = -1 \rightarrow n = \frac{-1}{\mu} \quad y = \omega$$



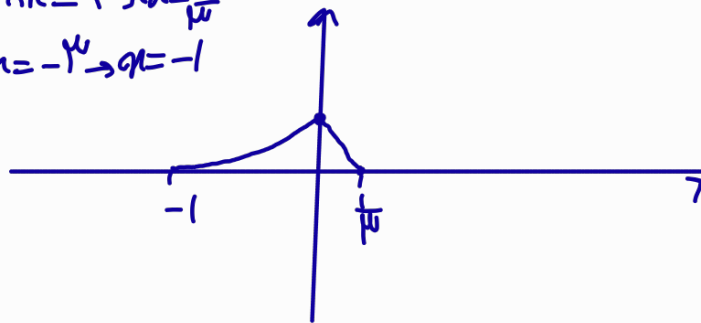
$$n = -1 \rightarrow y = 0 \rightarrow \mu n + 1 = -1 \rightarrow \mu n = -2 \rightarrow n = \frac{-2}{\mu} \quad y = \mu$$

$$n = 1 \rightarrow y = 0 \rightarrow \mu n + 1 = 1 \rightarrow \mu n = 0 \rightarrow n = 0 \quad y = \mu$$

$$(1, 1) \rightarrow 1 - \mu n = 1 \rightarrow \mu n = 0 \rightarrow n = 0 \quad y = 1$$

$$(1, 0) \rightarrow 1 - \mu n = 1 \rightarrow \mu n = 0 \rightarrow n = 0 \quad y = \frac{1}{\mu}$$

$$(0, 0) \rightarrow 1 - \mu n = 0 \rightarrow \mu n = 1 \rightarrow n = \frac{1}{\mu}$$



$$y = -\frac{1}{\mu} \left(\alpha^{\frac{\mu}{\omega}} - \frac{\mu}{\omega} \alpha \right) + 1 = -\frac{1}{\mu} \left(\left(\alpha - \frac{\mu}{\omega} \right)^{\frac{\mu}{\omega}} - \frac{\mu}{\omega} \right) + 1 = -\frac{1}{\mu} \left(\alpha - \frac{\mu}{\omega} \right)^{\frac{\mu}{\omega}} + \frac{\mu}{\omega}$$

$$x_s = \frac{\mu}{\omega} \quad y_s = \frac{\mu}{\omega}$$

$$\mu - \frac{\mu}{\omega} = \frac{\mu}{\omega}$$

$$\mu - \frac{\mu}{\omega} = \frac{\mu}{\omega}$$

$$y = -\frac{1}{\mu} \left(\alpha - \frac{\mu}{\omega} \right)^{\frac{\mu}{\omega}} + \frac{\mu}{\omega}$$

$$\frac{1}{\mu} \left(\alpha - \frac{\mu}{\omega} \right)^{\frac{\mu}{\omega}} = \frac{\mu}{\omega} \rightarrow \alpha = +1$$

$$(1, \varepsilon) \rightarrow \mu_n + \nu = 1 \rightarrow \mu_n = -1 \rightarrow \alpha = \frac{-1}{\mu} \rightarrow \alpha \quad (V)$$

$$y = -1 = -\nu \rightarrow \beta \rightarrow \alpha\beta = \frac{-1}{\mu} \times -\nu = \frac{\nu}{\mu}$$

$$f(n-1) \rightarrow \alpha < n-1 \leq \varepsilon \rightarrow \alpha+1 < n \leq \omega \rightarrow \alpha+1 = -\nu \rightarrow \alpha = -\mu \quad (A)$$

$$g(n+1) \rightarrow -1 \leq n+1 < b \rightarrow -\nu \leq n < b-1 \quad b-1 = \omega \rightarrow b = \omega$$

$$a-b = -q$$

$$D_{y_1} = [-\mu, \omega] \rightarrow -\mu \leq n \leq \omega \rightarrow -\frac{1}{\mu} \leq \frac{n}{\mu} + 1 \leq \frac{\nu}{\mu} \quad (9)$$

$$P_{y_1} = [-1, \mu] \rightarrow -1 \leq f(n) \leq \mu \rightarrow -\omega \leq \nu f(n) - \mu \leq 1 \rightarrow 0 \leq |\nu f(n) - \mu| \leq \omega$$

$$0 \leq \sqrt{|\nu f(n) - \mu|} \leq \sqrt{\omega} \rightarrow R_f = [0, \sqrt{\omega}]$$

$$f(n) = \left| \frac{n+1}{\mu_n+1} \right| \frac{\frac{\mu}{\mu_n+1} + \frac{\nu}{\mu_n+1}}{\left| \frac{\mu}{\mu_n+1} + \frac{\nu}{\mu_n+1} \right|} \left| \frac{n-\nu+1}{\nu(n+\nu)+1} \right| + 1 \rightarrow g(n) = \left| \frac{n-1}{\mu_n-\mu} \right| + 1 \quad (10)$$

$$n + g(n) < 0 \rightarrow n + \underbrace{\left| \frac{n-1}{\mu_n-\mu} \right| + 1}_{\text{هو ارجو مسبق}} < 0 \rightarrow n+1 < 0 \rightarrow n < -1$$

$\downarrow$
 $\left. \begin{array}{l} \text{داخل مقلوب} \\ \text{داخل مقلوب} \end{array} \right\} \begin{array}{l} n-1 < -\mu \\ \mu_n - \mu < -\omega \end{array} \rightarrow \begin{array}{l} \text{داخل مقلوب} \\ \text{مقلوب مسبق} \\ \text{داخل مقلوب} \end{array}$

$$n + g(n) < 0 \rightarrow n + \left| \frac{n-1}{\mu_n-\mu} \right| + 1 > 0 \rightarrow n+1 + \frac{n-1}{\mu_n-\mu} > 0 \rightarrow \frac{\nu(n^2 - \mu)}{\mu_n - \mu} < 0$$

$\mu_n - \mu$
 مقلوب

$$n^2 - \mu > 0 \rightarrow n > \sqrt{\mu} \text{ or } n < -\sqrt{\mu} \rightarrow (-\infty, -\sqrt{\mu})$$

$n < -\sqrt{\mu}$