

$$-1 \leq \frac{\mu a + 1}{\omega} \leq 1 \rightarrow -1 \leq \mu a + 1 \leq 1 \rightarrow -1 \leq \mu a \leq 1 \rightarrow -1 \leq a \leq 1 \quad (1)$$

(2) (3)

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

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

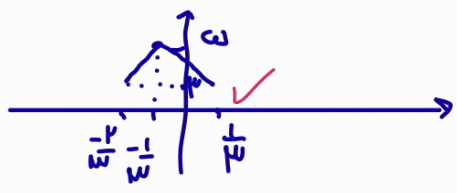
$$\frac{\mu a + 1}{\mu} \xrightarrow{a=-1} -1$$

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

$$D = \left(-\frac{\mu}{\omega}, \frac{\mu}{\omega}\right] \leftarrow -\frac{\mu}{\omega} < a \leq \frac{\mu}{\omega} \quad \downarrow \times -1$$

$$a=0 \rightarrow y=1$$

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



(2) (3)

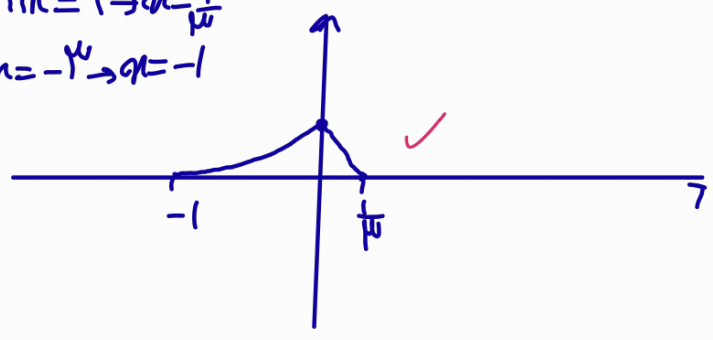
$$a = -1 \rightarrow y = 0 \rightarrow \mu a + 1 = -1 \rightarrow \mu a = -2 \rightarrow a = \frac{-2}{\mu} y = \mu$$

$$a = 1 y = 0 \rightarrow \mu a + 1 = 1 \rightarrow \mu a = 0 \rightarrow a = \frac{0}{\mu} y = \mu$$

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

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

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



(2) (3)

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

$$a_s = \frac{\mu}{\omega} a y_s = \frac{\mu}{\omega}$$

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

$$y = -\frac{1}{\mu} (a - \frac{\mu}{\omega})^{\frac{\mu}{\omega}} + \frac{\mu}{\omega}$$

$$\frac{1}{\mu} (a - \frac{\mu}{\omega})^{\frac{\mu}{\omega}} = \frac{\mu}{\omega} \rightarrow a = +1$$

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

$$y = -1 = -\sqrt{\nu} \rightarrow \beta \rightarrow \alpha\beta = \frac{-1}{\mu} \times -\sqrt{\nu} = \frac{\sqrt{\nu}}{\mu} \quad (r) \quad (v)$$

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

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

$$a-b = -\omega$$

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

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

$$0 \leq \sqrt{\mu f(n) - \mu} \leq \sqrt{\omega} \rightarrow R_f = [0, \sqrt{\omega}] \quad (r) \quad (10)$$

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

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

هو ارجو

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

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

منه

$$\mu^2 - \mu > 0 \rightarrow \mu > \sqrt{\mu} \quad \mu < -1, \quad (-\infty, -\sqrt{\mu})$$

$\mu < -\sqrt{\mu}$