

مقدار

بازدم رفتاری

نیایش سازه تباری

$$\log \frac{m^n}{mn} = b = \log \frac{mn}{mn} + \log \frac{m}{mn} = 1 + \frac{1}{\log \frac{mn}{m}} = 1 + \frac{1}{\log m + \log n} \quad (1)$$

$$1 + \frac{1}{1 + \frac{1}{\log \frac{m}{a}}} = 1 + \frac{a}{a+1} = b \rightarrow [b] = \left[1 + \frac{a}{a+1} \right] = \left[\frac{a}{a+1} \right] + 1 = 1$$

$$\frac{a}{a+1} < 1$$

الف) $y = \sqrt{\frac{x}{\log \frac{x}{\frac{1}{x}}}}$ (1) $x > 0$

(2) $\frac{x}{\log \frac{x}{\frac{1}{x}}} > 0 \rightarrow \frac{1}{1 + \frac{1}{x}} > 0 \rightarrow x \in (0, 1)$

(1) $x < 1 \rightarrow D_f = (0, 1)$

ب) $y = \frac{\log x (x^r - x - r)}{\sqrt{x^r - 1} + 1}$

(1) $x^r - x - r > 0$
 $(x-r)(x+r) > 0 \rightarrow x < -r \vee x > r$

$x \in (-\infty, -1) \cup (1, +\infty)$

(2) $x^r - 1 > 0 \rightarrow x^r > 1 \rightarrow x \in (-\infty, -1) \cup (1, +\infty)$

(1) $x < -1 \vee x > 1 \rightarrow D_f = \mathbb{R} - [-1, 1]$

$$(\log \frac{a}{p}) + \log \frac{\sqrt{x}}{a} = r \quad x=9 \rightarrow \quad (1)$$

$$r \log \frac{a}{p} + \log \frac{r}{a} = r$$

$$\left(\log \frac{a}{p} \right) + \left(\log \frac{r}{a} \right) = r \rightarrow m + \frac{1}{m} - r = 0$$

$$m^r - r m + 1 = 0 \rightarrow m = 1$$

$$m = \log \frac{a}{p} = 1 \rightarrow \underline{a = p}$$

$$\left(\log \frac{\Delta}{p} \right) x^r + (\log 9) x - \log 12 = 0 \quad (2)$$

$$|x - \beta| = \frac{\sqrt{\Delta}}{|a|} = \frac{(\log 9)^r - r(-\log 12)(\log \frac{\Delta}{p})}{\log \frac{\Delta}{p}}$$

$$\frac{(r \log r)^r + r \left(\log \frac{r}{p} + (\log 12 - \log r) \right) \left[(\log 12 - \log r) - \log r \right]}{\log 12 - \log r - \log p} = \sqrt{\frac{1.94}{0.4r + r(1)(0.13)}} =$$

$$\frac{\sqrt{1.94}}{0.4r} = \frac{1/r}{0.4r} = \frac{1}{0.4} = \frac{5}{2}$$

$$\log \frac{1}{1r} = \frac{\log 1}{r} = \frac{\log r + \log \Delta}{\log r + \log p} = \frac{1 + \frac{1}{0.4}}{1 + \frac{1}{0.4}} = \frac{r}{r} = \frac{12}{19} \quad (3)$$

$$\log \frac{4}{12} = \frac{\log 4}{\log 12} = \frac{1 + \log p}{1 + \log \Delta} = \frac{1 + \frac{1}{1.4}}{1.4} = \frac{13}{20} = \frac{14}{20} \quad (4)$$

$$\log \frac{1r}{r} = \frac{\log 1r}{\log r} = \frac{r + \log p}{r} = \frac{r + \frac{r-1}{r}}{r} = \frac{r^2 + r - 1}{r^2} \quad (5)$$



$$\log \frac{1}{\lambda} = m \rightarrow \log \frac{1}{\lambda} = \mu m \rightarrow 1 + \mu \log \frac{\mu}{\lambda} = \mu m \rightarrow \log \frac{\mu}{\lambda} = \frac{\mu m - 1}{\mu}$$

$$\left(\frac{\mu}{\lambda}\right)^{\mu m - 1} = \left(\frac{1}{\lambda}\right)^{\mu m} \rightarrow \left(\frac{\mu}{\lambda}\right)^{1 - \mu m} = \left(\frac{\mu}{\lambda}\right)^{\mu m} \quad (1)$$

$$\mu m = 1 - \mu m \rightarrow \mu m + \mu m - 1 = 0 \rightarrow \mu = -1$$

$$\mu = \frac{1}{\mu}$$

$$\mu = -1 \rightarrow \log \frac{1}{\lambda} \rightarrow \bar{0} \bar{0} \bar{0}$$

$$\mu = \frac{1}{\mu} \rightarrow \log \frac{\mu}{\lambda} = \log \frac{\mu^{\mu}}{\lambda^{\mu}} = \frac{\mu}{\mu}$$

$$\log \frac{\mu}{\lambda} = a \quad \log \frac{b}{\lambda} = \frac{\mu}{\mu} (1 + a) = \frac{\mu}{\mu} (\log \frac{\mu}{\lambda}) = \log \frac{\mu}{\lambda} \quad (2)$$

$$b = \mu \rightarrow \log \mu b - \lambda = \log 100 = \underline{\mu}$$

$$- \mu a \mu^{\mu} + b \mu + \frac{1}{\mu} c = 0 \quad \frac{1}{\mu_1 + \mu_2} = \log \mu \rightarrow \frac{b}{\mu a} = \log \frac{1}{\mu} = \frac{1}{\mu} \log \frac{1}{\mu} \quad (3)$$

$$b = \mu a \log \frac{1}{\mu}$$

$$a = \frac{b + c}{\mu} \rightarrow \mu a = \mu a \log \frac{1}{\mu} + c \rightarrow c = \mu a (1 - \log \frac{1}{\mu})$$

$$\left(\frac{1}{\sqrt{\mu}}\right)^{\frac{c}{a}} = \left(\frac{1}{\mu}\right)^{\frac{1}{\mu} \left(\frac{c}{a}\right)} = \frac{1}{\mu} \left(\frac{1}{\mu}\right)^{\frac{1}{\mu} \left(\frac{\mu a \log \frac{1}{\mu}}{a}\right)} = \left(\frac{1}{\mu}\right)^{\frac{1}{\mu} \log \frac{1}{\mu}} = \mu^{-\frac{1}{\mu} \log \frac{1}{\mu}}$$

$$\boxed{\frac{\mu}{\sqrt{\mu}}} \leftarrow \mu^{\frac{1}{\mu}} \leftarrow \left(\frac{1}{\mu}\right)^{\frac{1}{\mu}} \leftarrow \mu^{-\frac{1}{\mu} \log \frac{1}{\mu}}$$

