

بازدهم سیر

$$\begin{aligned}
 & \mu^{A\alpha+B} \quad y = a^x \\
 & f(1) = 1 \\
 & f(\mu) = a \\
 & \Rightarrow \mu^{a-1} \quad f(x) = \mu^{-1} = \left(\frac{1}{\mu}\right) \checkmark
 \end{aligned}$$

$$\begin{aligned}
 & \mu^{A\alpha+B} = 1 \Rightarrow A+B=0 \\
 & \mu^{\mu A+B} = a \Rightarrow \mu A+B = \mu
 \end{aligned}$$

$\underline{\mu}$ (1)

$$\begin{aligned}
 & \mu A = \mu \quad \checkmark \\
 & A = 1 \quad \checkmark \\
 & B = -1 \quad \checkmark
 \end{aligned}$$

$$\log_r (r^a + 1) = a + \mu \Rightarrow r^a + 1 = r^{a+\mu}$$

$$\begin{aligned}
 & = r^{\mu a} + 1 = \mu x r^a \\
 & t^{-\mu} + 1 = \mu
 \end{aligned}$$

\checkmark (1)

$$\begin{aligned}
 & (t-\mu)(t-\omega) \\
 & (\mu) \cdot (\omega)
 \end{aligned}$$

$$\begin{aligned}
 & r^a = \mu \Rightarrow \log_r \mu = a \\
 & r^a = \omega \Rightarrow \log_r \omega = a
 \end{aligned}$$

$$\log_r \mu + \log_r \omega = \log_r \omega \checkmark$$

$$(\log_r \mu)^{\mu} + \log_r \mu \log_r (\mu^{\mu})$$

$$(\log_r \mu)^{\mu} + (\log_r \mu - \log_r \mu)(\log_r \mu + \log_r \mu) = (\log_r \mu)^{\mu} = \textcircled{\mu} \checkmark$$

$$(\log_r \mu)^{\mu} - (\log_r \mu)^{\mu}$$

\checkmark (1)

$$\log_r (a^{\mu} - r\mu + 1) + \mu \log_r (1-a) = \omega$$

$$\log_r (1-a)^{\mu} = \mu \log_r (1-a) + \mu \log_r (1-a) = \omega \log_r (1-a) = \omega \Rightarrow \log_r (1-a) = 1$$

$$\log_r a = \textcircled{\mu} \checkmark$$

\checkmark (1)

$$\begin{aligned}
 & 1-a = 1 \\
 & a = -1 \checkmark
 \end{aligned}$$

$$\log_r (a^{\mu} - 1) = \mu$$

$$a^{\mu} - 1 = 1 \quad a = r^{\frac{\omega}{\mu}} \quad \log_r r^{\frac{\omega}{\mu}} = \textcircled{\mu} \checkmark$$

\checkmark (1) (1)

$$\log (r-a) - \log \frac{1}{(r-a)^{\mu}} = \mu$$

$$\log (r-a) + (\log (r-a))^{\mu}$$

$$\log (r-a) = -1 \quad a = -1 \checkmark \quad \log_r \frac{1}{r} = \textcircled{\mu} \checkmark$$

\checkmark (1) (1)

$$\begin{aligned}
 & r^{a-\mu} = 1 \quad a \\
 & r^{a-\mu} = r^{\mu} \\
 & a^{\mu} - \mu = a
 \end{aligned}$$

$$\frac{r^{\mu} (1+\mu)}{r} = \frac{r+\mu}{r} \Rightarrow \log_r \frac{r}{r} = \textcircled{\frac{1}{r}} \checkmark$$

\checkmark (1) (1)

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

$$\log^r \frac{1}{r} = \frac{\log^r 1}{\log^r r} = \frac{r \log^r r}{r + \log^r r} = \frac{\log}{\frac{r}{r}} = \frac{\log}{r} \Rightarrow \left(\frac{a}{r}\right) \checkmark$$

(2)

$$\log^r \frac{r}{1} = \frac{1}{1}$$

$$\log^r \frac{r}{1} = \frac{\log^r r}{\log^r 1} = \frac{\log^r r + \log^r \frac{1}{r}}{\log^r r + \log^r 1} = \frac{\frac{1}{r}}{\frac{1}{r}} = \frac{1}{1} \Rightarrow \left(\frac{r}{r}\right) \checkmark$$

(2)

$$(a \log^r) a^r + a r + b \log^r = 0$$

(2)

$$a \log^r a + a + b \log^r = 0 \quad \div a \Rightarrow \log^r a + 1 + \frac{b}{a} \log^r = 0$$

$$\left(\sqrt{r}\right) = a \frac{1}{\log^r r} = \left(a\right) \checkmark$$

$\frac{b}{a} \log^r = 1 - \log^r$
 $\frac{b}{a} = \frac{\log^r}{\log^r}$