

تاریخ: / /

$$f(x) = r^{Ax+B}$$

$$y = a^x \xrightarrow{a=1} y=1$$

$$\xrightarrow{a=r} y=r$$

①

$$\begin{array}{c|c} 1 & r \\ \hline 1 & r \end{array}$$

$$r^{A+B} = 1$$

$$r^{rA+B} = r^r$$

$$\rightarrow A+B=0$$

$$\rightarrow rA+B=r$$

$$\text{if } m \geq 0 \rightarrow r^{-1} = \frac{1}{r}$$

$$rA=r \rightarrow A=1 \quad B=-1$$

$$\log_r r^x + \log_r r^a = x + a$$

$$r^{x+a} = r^x + r^a$$

②

$$r^{rA} - r^{A+r} + \log_r r^a = 0$$

$$t \rightarrow (r^t)^r - 1(r^t) + \log_r r^a = 0 \rightarrow t^r - 1t + \log_r r^a = 0$$

$$t=r \rightarrow r^r = r \rightarrow r = \log_r r^r$$

$$(t-r)(t-a) = 0$$

$$t=a \rightarrow r^a = a \rightarrow a = \log_r r^a$$

$$\log_r r^a + \log_r r^r = \log_r r^a$$

$$(\log_r r^r)^r + \log_r (r^r) \log_r (r^r r^r) = r^r \times r^r \times r^r$$

③

$$(\log_r r^r)^r + (\log_r r^r + \log_r r^r) (\log_r r^r + r \log_r r^r)$$

④

$$\log_r r^r = \log_r r^r - \log_r r^r = 1 - \log_r r^r$$

$$(\log_r r^r)^r + (r - \log_r r^r) (r + \log_r r^r) = (\log_r r^r)^r + r - (\log_r r^r)$$

$$= r$$

$$\log_{\mu}(\mu^a) = a \quad \log_{\mu}(\mu^r - \mu a + 1) + \mu \log_{\mu}(1-a) = a \quad (2)$$

$$\log_{\mu}(1-a)^{\mu} + \mu \log_{\mu} 1-a = a \quad \log_{\mu} a = \mu$$

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

$$\log_{\mu}(\mu^r + \mu a + 1) + \log_{\mu} \mu^{-r} = \mu \log_{\mu} a \quad (2)$$

$$\log_{\mu} \mu^{a\mu} - 1 = \mu \rightarrow \mu - a^{\mu} - 1 = \mu$$

$$\log_{\mu} \frac{\mu}{\sqrt{\mu}} = \frac{\mu}{\sqrt{\mu}} \log_{\mu} \mu = 1 \quad \mu = a^{\mu} \rightarrow a = \sqrt{\mu}$$

$$\log_{\mu}(\mu-a) - \log_{\mu} \frac{1}{(\mu-r)\mu} = \mu \log_{\mu}(-a) \quad (2)$$

$$\mu \log_{\mu} \mu-a + \mu \log_{\mu} \mu-a = \mu \rightarrow \mu \log_{\mu} \mu-a = \mu$$

$$\mu-a=1 \rightarrow a=-1 \quad \log_{\mu} \mu-a = 1 \quad \log_{\mu} \mu-a = 1$$

$$\log_{\mu} \mu-a = 1 \rightarrow \mu-a = \mu \rightarrow a = 0$$

$$\log_{\mu} \mu = \frac{a}{1} \quad \log_{\mu} 1 = \frac{\log_{\mu} a}{\log_{\mu} \mu} = \frac{\mu}{\log_{\mu} a + \log_{\mu} \mu}$$

$$\frac{\mu}{1 + \mu \log_{\mu} a} = \frac{\mu}{\frac{1}{a}} = \frac{a}{1}$$



$$\log_r^m = 0,18 \quad \log_r^4 = ?$$

(9)

$$\log_r^4 = \frac{\log_r^7}{\log_r^2} = \frac{\log_r^{1,4+1}}{\log_r^{1,4+1}} = \frac{1,4+1}{1,4+1}$$

(5)

$$\frac{1}{r} \log_r^m = \frac{1}{1} \rightarrow \log_r^m = 1,4 \quad \frac{1,4}{1,4} = \frac{1,4}{1,4}$$

$$(a \log_r^r)^{m^r} + a + b \log_r^r = 0$$

$(\sqrt{r})^{\frac{b}{a}}$

(10)

$$m = -1 \rightarrow a \log_r^r - a + b \log_r^r = 0 \rightarrow \log_r^r = 9$$

$$ay - a + by = 0 \quad \div a \rightarrow y - 1 + \frac{b}{a}y = 0 \rightarrow y - \frac{b}{a}y = 1$$

$$1 - \frac{b}{a} = \frac{1}{\log_r^r} \rightarrow 1 - \frac{b}{a} = \log_r^1 \rightarrow 1 - \frac{b}{a} = 1 + \log_r^a$$

$$\frac{b}{a} = 1 + \log_r^a \quad \sqrt{r} + \log_r^a = a + \frac{1}{r} = \sqrt{a}$$

$$\log_{a-r}^{a-r} = ? \quad a^{r-1} = 1 \quad a = r^m \quad \frac{1}{r} \text{ سوال}$$

$$a^r - r = r^m \rightarrow a^r - r^m - r = 0$$

(5)

$$(a-r)^r = 4 \rightarrow a-r = \sqrt{4} \rightarrow a = -\sqrt{4} + r \quad \text{و } \sqrt{4} + r$$

$$\rightarrow a = \sqrt{4} + r \quad \text{و } \sqrt{4}$$

$$\log_{4}^{r+\sqrt{4}-r} = \log_{4}^{\sqrt{4}} = \frac{1}{r}$$