

$$\log_n^m a \rightarrow \frac{\log m}{\log n} = a \quad b = \log_{mn}^m = \frac{r \log^m + \log^n}{\log^m + \log^n} = \frac{r a + 1}{a + 1} = 1, \frac{a}{a+1} \rightarrow [b] = 1$$

$$\begin{aligned} x < x > 0 \quad x < 1 \leq x > 2 \quad (1) \\ x < 1 > 0 \quad x > 1 \quad x > 1 \leq x < 1 \quad (2) \\ \sqrt{x+1} \neq 0 \quad \sqrt{x} \quad (3) \\ (1) \cap (2) \cap (3) = (-\infty, -1) \cup (x, +\infty) \end{aligned}$$

$$\left. \begin{aligned} x > 0 \rightarrow \frac{x}{\log \frac{x}{x}} > 0 \rightarrow (\log \frac{x}{x}) > 0 \rightarrow x < 1 \\ (1) \cap (2) : x < 1 \end{aligned} \right\}$$

$$m=a \rightarrow r \log a + \log a^r = r \rightarrow \log a^r + \log a^r = r \xrightarrow{\log a^r = t} t + \frac{r}{t} = r \rightarrow t^2 - rt + 1 = 0$$

$$t=1 \Rightarrow \log a^r = 1 \rightarrow a=r$$

$$\log\left(\frac{a}{b}\right) = \log a - \log b = \log \frac{1}{r} - \log r = \log(-\log r - \log r) = 1 - r, r=0, r=0, r=0, r$$

$$\log a = r \log r = 0, 1 \quad \log a = \log a^r = \log \frac{1}{r} + \log r = \log(-\log r + \log r) = \log(-0 + 0) = 0, 1$$

$$0, r, r, 0, 1, 1, 1 = 0 \quad \left\{ \begin{aligned} r &= 1 \\ r &= -\frac{1}{0, r} = -\frac{1}{r} \end{aligned} \right. \quad a-b = 1 - \left(-\frac{1}{r}\right) = \frac{r+1}{r}$$

$$\log_r^r a = 0, 1 \rightarrow \log_r a = \frac{1}{\log_r r} = r$$

$$\log_{1/r}^1 = \frac{\log \frac{1}{r}}{\log \frac{1}{r}} = \frac{\log r + \log r}{\log r + \log r} = \frac{1+r}{1+r, 1} = \frac{r}{r, 1} = \frac{r}{r, 1} = \frac{r}{1, r}$$

$$\frac{\log_{10}^4}{\log_{10}^2} = \frac{\log_{10}^{10} + \log_{10}^1}{\log_{10}^2 + \log_{10}^2} = \frac{1 + \frac{1}{10}}{1 + 1} = \left[\frac{10}{20} \right]$$

$$\log_4^x = \frac{1}{\log_4^x} = \frac{10}{19}$$

$$\log^m n = \frac{\log^m n}{\log^1 n} = \frac{\log^r n + \log^r n}{\log^1 n} = \frac{\frac{r}{m} \log^r n + \frac{1}{m} \log^r n}{\frac{r}{m} \log^r n} = \frac{\frac{r}{m} + \frac{1}{m} \left(\frac{r-1}{r} \right)}{\frac{r}{m}} = \frac{r}{r} (m+1)$$

$$\log_{g^N} = \log_{g^9} + \log_{g^4} = m \rightarrow \frac{r}{r} \log_{g^r} + \frac{1}{r} \log_{g^r} = m \rightarrow \frac{r}{r} \log_{g^r} + \frac{1}{r} = m \rightarrow \log_{g^r} = \frac{r(m-1)}{r}$$

$$(q^r)^{r_{n-1}} = \left(\frac{12\omega}{\lambda}\right)^{r_{n-1}} \rightarrow \left(\frac{r}{\omega}\right)^{r_{n-1}} = \left(\left(\frac{\omega}{r}\right)^r\right)^{r_{n-1}} \rightarrow \left(\frac{r}{\omega}\right)^{r_{n-1}} = \left(\frac{\omega}{r}\right)^{r_{n-1}r} \rightarrow \left(\frac{\omega}{r}\right)^{-r_{n-1}} = \left(\frac{\omega}{r}\right)^{r_{n-1}r}$$

$$r_{n-1}r = -r_{n-1} \rightarrow r_{n-1}r + r_{n-1} = 0 \quad \begin{cases} n = -1 \times \\ n = \frac{1}{r} \checkmark \end{cases} \rightarrow \log_{\omega} \frac{r}{\omega} = \log_{\omega} \frac{r}{r} = \boxed{1}$$

$$\log_a^b = \frac{r}{r} (1+a) \xrightarrow{\log_r^r = 1} \log_a^b = \frac{r}{r} (1+\log_r^r) \rightarrow \frac{1}{r} \log_a^b = \frac{r}{r} (\log_r^r / \log_r^r) \rightarrow$$

$$\frac{1}{r} \log_a^b = \frac{r}{r} \log_r^r \rightarrow \frac{1}{r} \log_a^b = \frac{1}{r} \log_r^r \rightarrow b = r$$

$$\log_r^r b - 1 \xrightarrow{b=r} \log_r^{r \times r - 1} = \log_r^{r^2 - 1} = r$$

$$S = \frac{b}{-f_a} = \frac{b}{f_a} \rightarrow \frac{f_a}{b} = \log^f \rightarrow \frac{a}{b} = \frac{1}{f} \log^f = \log^{\frac{1}{f}} \rightarrow a = b \log^{\frac{1}{f}} \rightarrow$$

$$r_a = b + c \rightarrow c = r_a - b = r \log \sqrt{P} - b = b(r \log \sqrt{P} - 1) = b(\log P - 1) \rightarrow c = b \log \omega$$

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