

$$\log_{\lambda}^m = m \quad \log_{\frac{1}{r}}^r = \log_{\frac{1}{r}}^r = \log_{\frac{1}{r}}^r \Rightarrow \frac{1r - r + m}{1r} = \frac{a+m}{1r}$$

$$\log_{\frac{1}{r}}^m = \frac{m}{r} \quad \log_{\frac{1}{r}}^r \Rightarrow \frac{1}{r} \log_{\frac{1}{r}}^r$$

$$\frac{\log_{\frac{1}{r}}^r + \log_{\frac{1}{r}}^a}{1 + r \log_{\frac{1}{r}}^r} = \frac{m-r}{r} \Rightarrow \log_{\frac{1}{r}}^r = \frac{m-r}{r} \Rightarrow \log_{\frac{1}{r}}^r = \frac{m-r}{1r}$$

$$(0/r)^{ra-1} = \left(\frac{1ra}{\lambda}\right)^{ra} \quad \log_{\lambda}^{(raa1)} \Sigma$$

$$\left(\frac{r}{a}\right)^{ra-1} = \left(\left(\frac{a}{r}\right)^r\right)^{ra} = \left(\frac{r}{a}\right)^{-ra^2}$$

$$-ra^2 = ra-1 \Rightarrow ra^2 + ra - 1 \leq + \frac{1}{r} \quad -1 \neq \frac{1}{r} \quad \Rightarrow \frac{ra}{r} = 1 \neq$$

$$\log_{\frac{1}{r}}^r = a \quad \log_{\lambda}^b = \frac{r}{r} (1+a) \quad \log(rb-1) \log^{1 \cdot \lambda - 1} = \frac{r}{r}$$

$$\frac{1}{r} \log_{\frac{1}{r}}^b = \frac{r}{r} (1+a)$$

$$\log_{\frac{1}{r}}^b = r(1+a)$$

$$\log_{\frac{1}{r}}^r + \log_{\frac{1}{r}}^r$$

$$\log_{\frac{1}{r}}^b = r \log_{\frac{1}{r}}^r \Rightarrow \log_{\frac{1}{r}}^b = \log_{\frac{1}{r}}^{r^r} = b = r$$

$$-ra^2 + ba = \frac{1}{r} c =$$

$$\frac{-b}{-ra} = \frac{b}{ra}$$

$$ra = c + b$$

$$\left(\frac{1}{r}\right)^{\frac{c}{a}} = ?$$

$$\frac{1}{r^{\frac{1}{a}}} \Rightarrow \left(\frac{1}{r}\right)^{\frac{1}{a}} \Rightarrow (r^{-\frac{1}{a}})^{\frac{c}{a}}$$

$$\frac{r(ca-b)}{b} = r \log_{\frac{1}{r}}^r$$

$$\frac{c}{b} + 1 = \log_{\frac{1}{r}}^r \Rightarrow \log_{\frac{1}{r}}^{\frac{1}{r}} = \frac{1}{r} = -\frac{c}{b} \quad -\frac{c}{ra-c} \Rightarrow \log_{\frac{1}{r}}^{\frac{1}{r}} = -\frac{ra-c}{c}$$

$$(r^{-\frac{1}{a}})^{\log_{\frac{1}{r}}^{\frac{1}{r}}} \Rightarrow \frac{1}{r} \log_{\frac{1}{r}}^{\frac{1}{r}} = \frac{1}{r}$$

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

$$\frac{a^r}{\lambda}$$

$$\log_{\frac{1}{r}}^{\frac{1}{r}} = -\frac{ra}{c} + 1$$

$$\frac{ra}{c} = \log_{\frac{1}{r}}^{\frac{1}{r}} - \log_{\frac{1}{r}}^{\frac{1}{r}}$$

$$\frac{ra}{c} = \log_{\frac{1}{r}}^{\frac{1}{r}}$$

$$\frac{a}{c} = \frac{1}{r} \log_{\frac{1}{r}}^{\frac{1}{r}}$$

$$\frac{a}{c} = \log_{\frac{1}{r}}^{\frac{1}{r}}$$

$$\frac{c}{a} = \log_{\frac{1}{r}}^{\frac{1}{r}}$$

$$\log_m n = a$$

$$\log_{mn} n = b \text{ as } [b]$$

نشان دهی

$$\log_{mn} m + \log_{mn} n = \frac{1}{a+1}$$

$$\frac{1}{\log_{mn} m}$$

$$\log_{mn} n \Rightarrow \log_m n + \log_n n$$

$$\frac{1}{\log_m m} \Rightarrow \frac{1}{a+1} = \frac{1}{a+1} + \frac{1}{a+1} = \frac{2}{a+1} \Rightarrow \left[1 + \frac{1}{a+1}\right] \Rightarrow \underline{1 = [b]}$$

$$0 < \sqrt{\frac{a}{\log a}} \Rightarrow 0$$

$$\log a \neq 0 \Rightarrow \left(\frac{1}{x}\right)^0 \cdot 1 = 1 \neq 1 \quad \frac{0}{-1+1} \Rightarrow n \in (0, 1)$$

$$0 < \frac{\log x^{x-x}}{\sqrt{x^2-1}+1} \cdot \frac{(x+1)(x-1)}{x-1} \Rightarrow (-\infty, -1) \cup (1, \infty)$$

$$\begin{aligned} x \log a + \log x^{\frac{1}{x}} &= y \quad \frac{y}{b} + \frac{b}{y} = y \Rightarrow \frac{y^2 + b^2}{yb} = y \Rightarrow y^2 + b^2 = y^2 b \\ \frac{1}{\log a} + \frac{1}{x} \log a &= \frac{1}{b} \log a = y \Rightarrow a^y = x^y \Rightarrow \underline{a = x} \end{aligned}$$

$$\log x = 0,3 \quad \log y = 0,4 \quad \text{احتمالاً} \quad \frac{(\log x)^2 + (\log y)^2 - \log 15}{\sqrt{15}} = \frac{\sqrt{0,9^2 + 0,4^2}}{0,3} = \frac{1,3}{0,3}$$

$$\log \omega = \log 10 - \log x$$

$$\log x = 2,1 \quad \log y = 2,8 \quad \log 10$$

$$\log x + \log y = \log 10 \Rightarrow \frac{1}{\log x} + \frac{1}{\log y} = \frac{1}{\log 10} \Rightarrow \frac{1}{2,1} + \frac{1}{2,8} = \frac{1+2}{2,1 \cdot 2,8} = \frac{3}{5,88} = \frac{10}{19,74}$$

$$\log x + \log y = \log 10 \Rightarrow \log x + \log y = \log 10 \Rightarrow \log x + \log y = \log 10$$

$$\log x = 1,5 \quad \log y = 1,6 \quad \log 10$$

$$\log x + \log y = \log 10 \Rightarrow \log x + \log y = \log 10 \Rightarrow \log x + \log y = \log 10$$