

$$\log_n^m 29 \rightarrow m = n^a$$

$$b_2 \log_{mn}(m^n n) = \frac{\log m^n n}{\log mn} \xrightarrow{m \geq n} m^n n \geq n^2 n = n^3$$

$$mn \geq n^a \cdot n^{a+1} \geq n^{a+1} \rightarrow b \geq \frac{(a+1)}{a+1} \rightarrow [b] \geq 1$$

(۲) اثبات $\log_a n \rightarrow \log_a n$ $\rightarrow \log_a n$ $\rightarrow \log_a n$

$$m \neq 1 \rightarrow \log_m \rightarrow \frac{1}{x}$$

اندر ۵) $m < 1$ ←
 اندر ۱) n ←
 $\frac{1}{p} \log n$ ← صورت + مرتب - کر
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دائره مست ص $1 < n < \infty$

$$m^T - m = r \cdot \frac{1}{2}$$

~~$(n-2)(n-1)$~~ $(n-1)(n+1) > 0$

$$\sqrt{r-1} \rightarrow r-1 \rightarrow n \geq 1 \quad n \leq 1$$

استدلال ← $n > 2$ و $n < -1$ را حذف و n را در n قرار می دهیم

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

$$\log_a m^{\frac{1}{r}} = \frac{1}{r} \log_a m$$

(۳)

$$\log_a m = \frac{1}{\log_a m} \rightarrow t = \log_a m$$

$$\log m = \frac{1}{t} \rightarrow r \left(\frac{1}{t} \right) + \frac{1}{r} + r = r$$

$$\frac{r}{t} + \frac{t}{r} + r \rightarrow (t-r)^r = 0 \rightarrow t = r$$

$$\log_a m = r \rightarrow a^r = m \rightarrow a = m^{\frac{1}{r}}$$

$$\ln |m_1 - m_2| = \sqrt{b^2 + c^2} \rightarrow \frac{\log \epsilon a}{|a|} = \frac{\log \epsilon a}{\log r} \rightarrow \log \epsilon a$$

$$a = \log r, b = \log q, c = -\log d$$

$$D = (\log q)^r + \epsilon \log r \log d \rightarrow \log q = r \log r$$

$$\frac{\log \frac{1}{r}}{\log \frac{1}{r}} \rightarrow \log \frac{1}{r} = \log_r (dx) = \log_r d + 1$$

$$\log_r d = \frac{1}{d} \rightarrow \log_r d = \frac{1}{d} \rightarrow r \rightarrow \log_r d = r + 1 = r$$

$$\log_r \frac{1}{r} = \log_r (V \times r) = \log_r V + 1 \rightarrow r, n + 1 = r, n$$

$$\log \frac{1}{r} = \frac{1}{r} = 0.1111$$

$$\log_4 15 = \log_4 (5 \times 3) = \log_4 5 + \log_4 3$$

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$$\log_4 15 = 1.9 \rightarrow \log_4 15 = \frac{1}{1.4} = 0.714$$

$$\log_4 15 = 0.714 + 1 = 1.714$$

$$\log_4 15 = \log_4 (5 \times 3) = 1 + \log_4 3 = 1 + 0.714 = 1.714$$

$$\log_4 15 = \frac{1.714}{1.4} = 1.224$$

$$\log_4 15 = \frac{\log_4 15}{\log_4 4} = \frac{\log_4 15}{1}$$

$$m = \frac{\log_4 15}{1} \rightarrow \log_4 15 = m$$

$$15 = 4^m \rightarrow 4^m = 15$$

$$1 + 2 \log_4 15 = m \rightarrow \log_4 15 = \frac{m-1}{2}$$

$$\log_4 15 = \frac{\log_4 15}{1} = \log_4 15 \rightarrow 15 = 4^m \rightarrow \log_4 15 = \log_4 4^m$$

$$\log_4 15 = \frac{m-1}{2} + 1 = \frac{m-1+2}{2} = \frac{m+1}{2}$$

$$\left(\frac{r}{10}\right)^{r_{m-1}} - 1$$

$$= \frac{a}{r} \left(\frac{r}{10}\right)^{r_{m-1}} \rightarrow r_{m-1}$$

$$r_{m-1}^2 + r_{m-1} - 1$$

$$= \Delta$$

$$\rightarrow r_{m-1}^2 + r_{m-1} - 1 = \Delta$$

$$m = \frac{1}{r}$$

$$\rightarrow \log_{\frac{1}{r}}^{q_{m+1}}$$

$$= \frac{r}{10}$$

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

$$= \frac{r}{10} (a+1)$$

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

$$\rightarrow b, 99$$

$$\log_{\frac{1}{r}}^b \times 10^4 - 1 = r$$

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

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

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

$$\rightarrow \log_{\frac{1}{r}}^b = \frac{ea}{b}$$

$$\rightarrow \frac{1}{r} \times \log_{\frac{1}{r}}^b = \frac{ea}{b}$$

$$\rightarrow \frac{1}{r} \times \log_{\frac{1}{r}}^b = \frac{ea}{b}$$

$$S = \frac{b}{ea} \rightarrow \frac{1}{S} = \frac{ea}{b}$$

$$\rightarrow ra = b + c \rightarrow b + c = r$$

$$\left[\frac{1}{r}\right]^a = \frac{1}{r} \times \log_{\frac{1}{r}}^b$$

$$\rightarrow \frac{1}{r} \times \log_{\frac{1}{r}}^b = \frac{ea}{b}$$

$$r \log_{\frac{1}{r}}^b = \frac{c}{a}, \frac{b}{a} \rightarrow r - r \log_{\frac{1}{r}}^b = -1 \log_{\frac{1}{r}}^b = \frac{c}{a}$$

$$\left(\frac{1}{r}\right)^{\frac{c}{a}} = \frac{1}{r} \times \log_{\frac{1}{r}}^b = \frac{ea}{b}$$

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

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

$$\rightarrow \frac{1}{r} a + \frac{1}{r} a - 1, 1 \rightarrow \left. \begin{array}{l} n_1 = 1 \\ a_r = \frac{-1}{r} \end{array} \right\} \rightarrow a_1 - a_r = \frac{1}{r}$$