

تساوی: $(1, 1)$ و $(2, 1)$

$$\left. \begin{array}{l} A \subseteq B \\ A \subseteq C \end{array} \right\} \Rightarrow A \subseteq B \cap C$$

$$\left. \begin{array}{l} A \subseteq B \\ A \subseteq C \end{array} \right\} \Rightarrow A \subseteq B \cup C$$

$$\Rightarrow f(x) = \frac{1}{x}$$

$$n^m \leq p^m \Rightarrow n \leq p$$

$$n^m \leq p^m \Rightarrow \log_p n^m \leq \log_p p^m$$

$$\log_p n^m \leq m \Rightarrow \log_p n \leq 1$$

$$\left(\log_p n \right)^2 = \left(\log_p n + 1 - 1 \right) \left(\log_p n + 1 \right) \Rightarrow \log_p n = \frac{1}{2}$$

$$\left(\log_p n \right)^2 = \left(\log_p n + 1 - \log_p n \right) \left(\log_p n + 1 \right)$$

$$\left(\log_p n \right)^2 = \left(\log_p n + 1 - \log_p n \right) \left(\log_p n + 1 \right) \Rightarrow \left(\log_p n \right)^2 + 1 - \left(\log_p n \right)^2 - 1 = 0$$

$$\log_p (n-1)^2 = 2 \log_p (n-1)$$

$$\log_p n \leq 1 \Rightarrow n \leq p$$

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$$\log_p (n-1)(n^2 + n + 1)$$

$$\log_p n^2 - 1$$

$$\log_p n^2 \leq \frac{2}{p} \Rightarrow \log_p n \leq \frac{1}{p}$$

$$n \leq n^2 - 1$$

$$n^2 \leq p^2 \Rightarrow n \leq p$$

$$\log_p n - \log_p (n-1) \leq \frac{1}{p}$$

$$\log_p n - n \leq \frac{1}{p}$$

$$\log_p n^2 = \frac{2}{p} \Rightarrow \log_p n = \frac{1}{p}$$

$$n^m = e^{m \ln n} \quad \Delta = \frac{+ \pm \sqrt{14e1}}{2}$$

$$\log_{\frac{1}{4}} \frac{1}{4} = \frac{1}{\frac{1}{4}} \log \frac{1}{4} = \frac{1}{\frac{1}{4}} \log \frac{1}{4} = 4 \log \frac{1}{4}$$

(2) (V)
 $\frac{1}{4} \log \frac{1}{4}$
 $\frac{1}{4} \log \frac{1}{4}$
 $\frac{1}{4} \log \frac{1}{4}$

$$\frac{\log x}{\log y} = \frac{\log x}{\log y}$$

$$\log_{\frac{1}{4}} 1 = \frac{\log 1}{\log \frac{1}{4}} = \frac{0}{\log \frac{1}{4}} = 0$$

(2) (V)
 $\frac{1}{4} \log \frac{1}{4}$
 $\frac{1}{4} \log \frac{1}{4}$

$$\frac{\log x}{\log y} = \frac{\log x}{\log y}$$

$$\frac{\log x}{\log y} = \frac{\log x}{\log y}$$

(9)

(2)

$$\frac{\log x \log y}{\log x \log y} = \frac{\log x \log y}{\log x \log y} = \frac{\log x}{\log y}$$

(1)

(2)

$$a \log x - a + b \log x = (a+b) \log x - a$$

$$\log x = \frac{a}{a+b}$$

$$\Rightarrow \log \frac{1}{4} = \log \frac{b}{a}$$

$$\log \frac{1}{4} - 1 = \frac{b}{a}$$

$$\log \frac{a}{4} = \frac{b}{a}$$

$$(\sqrt{4})^{\log \frac{a}{4}} = a^{\log \frac{a}{4}} = a^{\frac{1}{4}} = \sqrt[4]{a}$$