

مثال: (1) و (2)

(1)

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

(2)

$$\log_p \frac{a}{b} = \log_p a - \log_p b$$

$$\log_p \frac{a^x}{b^y} = x \log_p a - y \log_p b$$

(3)

$$\log_p \frac{a^x}{b^y} = x \log_p a - y \log_p b$$

$$\log_p \frac{a^x}{b^y} = x \log_p a - y \log_p b$$

(4)

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

$$\log_p n^p = p \log_p n$$

(5)

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

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

(6)

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

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

$$\log_{\frac{1}{4}} \frac{1}{4} = \frac{1}{\frac{1}{4}} \log_{\frac{1}{4}} \frac{1}{4} = \left( \frac{1}{\frac{1}{4}} \right)$$

$\begin{matrix} \nearrow \log_{\frac{1}{4}} \frac{1}{4} \\ \searrow \log_{\frac{1}{4}} \frac{1}{4} \\ \text{322} \end{matrix}$

$$\frac{\log_{\frac{1}{4}} \frac{1}{4}}{\log_{\frac{1}{4}} \frac{1}{4}} = \frac{\log_{\frac{1}{4}} \frac{1}{4}}{\log_{\frac{1}{4}} \frac{1}{4}} \Rightarrow \frac{\frac{1}{4}}{\frac{1}{4}} = \left( \frac{1}{1} \right)$$

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

$$\frac{\log_{\frac{1}{4}} \frac{1}{4}}{\log_{\frac{1}{4}} \frac{1}{4}} = \frac{\log_{\frac{1}{4}} \frac{1}{4}}{\log_{\frac{1}{4}} \frac{1}{4}} = \left( \frac{1}{1} \right)$$

$$a \log_{\frac{1}{4}} \frac{1}{4} - a + b \log_{\frac{1}{4}} \frac{1}{4} = (a+b) \log_{\frac{1}{4}} \frac{1}{4}$$

$$\log_{\frac{1}{4}} \frac{1}{4} = \frac{1}{a+b} \Rightarrow \log_{\frac{1}{4}} \frac{1}{4} = 1 + \frac{b}{a} \quad \log_{\frac{1}{4}} \frac{1}{4} - 1 = \frac{b}{a}$$

$$\log_{\frac{1}{4}} \frac{1}{4} = \frac{b}{a} \quad (\sqrt{r})^{\log_{\frac{1}{4}} \frac{1}{4}} = a^{\log_{\frac{1}{4}} \frac{1}{4}} = a^{\frac{1}{4}} = \sqrt[4]{a}$$