

«بنا خدا»

یارهم دختر A

سایش خادای

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

①

$$\log_{mn}^{m'n} = b \quad m'n = (mn)^b \rightarrow \log_{mn}^{m'n} = b$$

$$\left[\log_{mn}^{m'n} \right] = \left[\log_n^{\frac{a+1}{a+1}} \right] = \left[\frac{a+1}{a+1} \log_n \right]$$

$$\left[\frac{a+1+a}{a+1} \right] = \left[1 + \frac{a}{a+1} \right] = 1$$

$$0 < \frac{a}{a+1} < 1$$

②

$$\sqrt[n]{\log_{\frac{1}{n}} n}$$

شبه

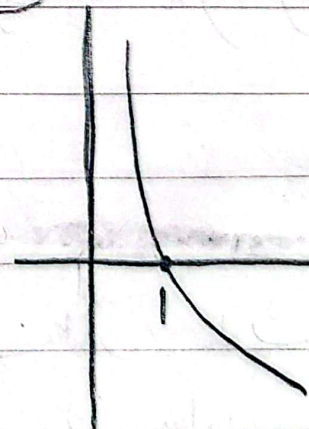
$$\begin{matrix} n > 0 \\ n \neq 1 \end{matrix}$$

صفر کننده خروج

$$\log_{\frac{1}{n}} n$$

صفر کننده خروج $n > 0$

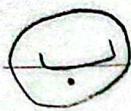
صفر کننده خروج



$$\begin{matrix} 0 & 1 \\ | & | \\ + & - \\ | & | \\ 0 & 1 \end{matrix}$$

پیدا شدن است!

$$n \in (0, 1)$$



$$y = \frac{\log(x^2 - x - 1)}{\sqrt{x^2 - 1} + 1}$$

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

brw:

$$(A) x^2 - x - 1 > 0$$

$$\frac{-1}{+1} \frac{1}{-1} +$$

$$(B) x^2 - 1 > 0$$

$$\pm 1$$

$$\frac{-1}{+1} \frac{+1}{+1}$$

$$x \log_a x + \log_a \sqrt{x} = 2$$

$$x = 9$$

$$x$$

$$\log_a x + \log_a x = 2$$

$$\log_a x = 1 \quad a' = x$$

$$a = x$$

$$\log x = 0, x \quad \log x = 1, x$$

$$\left(\log \frac{a}{x}\right) x^2 + (\log 9) x - \log 10 = 0 \quad 1 - \left(-\frac{11}{x}\right) = \left(\frac{13}{x}\right)$$

$$\log x + \log x = \log 10 = 1 \rightarrow \log x = 0, 1$$

$$\left(\log x - \log x\right) x^2 + (x \log x) - (\log x + \log x) = 0$$

$$0, 1$$

$$x^2 + 11x - 11 = 0$$

$$(x + 11)(x - 1) = 0$$

$$x^2 + 11x - 11 = 0$$

$$\frac{-11 \pm \sqrt{121 + 44}}{2}$$

$$\frac{-11}{2} \pm 1$$

Genhar

$$\frac{\log V}{\log r} = 2.18 = \log V \times \text{SUBJECT}$$

Year:

Month:

Day:

$$\log_r V = 2.18$$

⑤

$$\log_{12} 2 = 0.18$$

$$\log_{12}^{10}$$

$$r^{2.18} = V$$

$$\sqrt{\Delta} = r \rightarrow \Delta = 4$$

فأرغم 1:

$$\log_{12}^{10} = \log_{r \times V}^{r \times \Delta} = \log_r^r \times \frac{10}{r \times V} = \frac{r}{r \times V} = \frac{10}{19}$$

$$\log_r^r = 1.4, \log_r^{\Delta} = 1.18 \quad \text{⑥}$$

$$\log_{10}^4 = \log_{\Delta \times r}^{r \times r}$$

$$r^{1.4} = r$$

$$r^{1.18} = \Delta$$

$$r = \Delta^{\frac{1}{1.18}}$$

$$\log_{r^{1.18} \times r}^{r \times r^{1.4}} = \frac{1.4}{1.18} \quad \log_r^r = \frac{1.4}{1.18} \times \frac{1}{1.18} \quad \Delta^{\frac{1}{1.18}} = r^{\frac{1.4}{1.18}}$$

$$\frac{1.4}{1.18} = \frac{1.4}{1.18}$$

$$\Delta^{\frac{1}{1.18}} = r^{\frac{1.4}{1.18}}$$



$$\log_{\epsilon} r = \frac{1}{r} \log_r r$$

$$r^{\mu_m} = 1 \quad \text{⑤}$$

$$r^{\mu_m} = r \times 9$$

$$\frac{1}{r} (\log_r r + \log_r \epsilon) =$$

$$r^{\mu_m-1} = 9$$

$$\frac{1}{r} (\log_r r^{\frac{\mu_m-1}{r}} + r) =$$

$$\sqrt[r]{r^{\mu_m-1}} = \mu$$

$$\frac{1}{r} \left(\frac{r^{\mu_m-1}}{r} + r \right) = \frac{r^{\mu_m-1} + \epsilon}{r} = \frac{r^{\mu_m} + r}{\epsilon}$$

$$\left(\frac{r}{\omega} \right)^{\mu_n-1} = \left(\frac{\omega}{r} \right)^{\mu_n r}$$

$$\left(\frac{r}{\omega} \right)^{\mu_n-1} = \left(\frac{r}{\omega} \right)^{-\mu_n r}$$

$$\mu_n r + \mu_n - 1 =$$

$$\neq \left(\frac{1}{\mu} \right)$$

$$\log_{\wedge} 9^{2+1} = \log_{\wedge} \epsilon = \frac{r}{r} \log_r r$$

$$\left(\frac{r}{\mu} \right)$$

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

$$\log_r r = a$$

9

$$r^a = r$$

$$\log(r^b - 1)$$

$$\frac{1}{r} \log_r b = \frac{r}{r} (a+1) \quad \log_r b = r(a+1)$$

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

$$(r^a)^r \times r = r^r = b$$

$$\log(r^b - 1) = r$$

$$\alpha, \beta \rightarrow \alpha + \beta = \frac{b}{\epsilon a}$$

$$\alpha \cdot \beta = -\frac{c}{\epsilon a}$$

10

$$\frac{1}{\alpha + \beta} = \log_r r \rightarrow \frac{\epsilon a}{b} = r \log_r r \quad \frac{a}{b} = \frac{\log_r r}{r}$$

$$a \neq \frac{b+c}{r} \rightarrow \boxed{ra = b+c}$$

$$r = \frac{b}{a} + \frac{c}{a} \rightarrow \frac{c}{a} = r - \frac{b}{a} = \frac{ra - b}{a}$$

$$\left(r^{-\frac{1}{n}}\right)^{\frac{c}{a}} = r^{-\frac{1}{\epsilon} + \left(\frac{1}{\epsilon} \log_r r\right)} = r^{-\frac{1}{\epsilon}} \times r^{\frac{1}{\epsilon}} = r^0 = 1$$

Senobar