

«بنا خدا»

یارهم دختر A

سایش خایه

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

①

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

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

⑤

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

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

②

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

الف

شماره

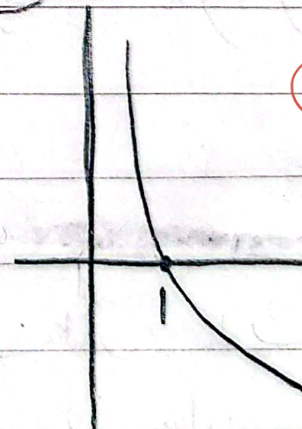
$$\begin{matrix} n > 0 \\ n \neq 1 \end{matrix}$$

صفر کننده خروج

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

صفر کننده خروج

صفر کننده خروج

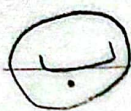


⑤

$$\frac{0}{1} \quad \frac{1}{1} \quad \frac{1}{1}$$

پیدا شدن

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



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

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

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

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

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

$$\pm 1$$

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

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

$$x = 9$$

$$r$$

$$\log_a x + \log_a r = r$$

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

$$a = r$$

$$\log r = 0, r \quad \log r = 0, r$$

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

$$\log r + \log a = \log 10 = 1 \rightarrow \log a = 0, r$$

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

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

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

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

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

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

Genhar

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

Year:

Month:

Day:

$$\log_r V = 2.18$$

(5)

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

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

فانكس 1:

$$r^{2.18} = V$$

$$\sqrt{2} = r \rightarrow 2 = r$$

$$\log_{12}^{10} = \log_{r \times V}^{r \times 2} = \log_r^2 \times \frac{10}{2 \times 2} = \frac{2.18}{2} = \frac{10}{19}$$

$$\log_r^3 = 1.4, \log_r^2 = 1.18 \quad (9)$$

$$r^{1.4} = 3$$

$$r^{1.18} = 2$$

$$3 = 2^{\frac{r}{r}}$$

$$\log_{10}^4 = \log_{2 \times 3}^{2 \times 3}$$

$$\log_{r^{\frac{3}{r}} \times r^{\frac{2}{r}}}$$

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

$$\log_r^2 = \frac{1.4}{1.18} \times \frac{10}{19}$$

$$\frac{1.4}{1.18} \times \frac{10}{19}$$

$$2^{\frac{r}{r}} = 2^{\frac{1.4}{1.18}}$$

$$2^{\frac{r}{r}} = 2^{\frac{1.4}{1.18}}$$

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

(5)



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

$$r^m = 1 \quad \text{⑤}$$

$$r^m = r \times 9$$

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

$$r^{m-1} = 9$$

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

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

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

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

⑤

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

⑤

$$r^n + r^{n-1} =$$

$$\times \left(\frac{1}{r} \right)$$

$$\log_{r^{n+1}} \epsilon = \log_r \epsilon = \frac{1}{r} \log_r r$$

$$\frac{r}{r}$$

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

$$\log_r^w = a$$

(9)

$$r^a = r^w$$

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

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

$$\log_r b = r(a+1) \quad (5)$$

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

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

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

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

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

(10)

$$\frac{1}{\alpha + \beta} = \log^r \rightarrow \frac{\epsilon a}{b} = r \log^r$$

$$\frac{a}{b} = \frac{\log^r}{r} \quad (5)$$

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

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

$$\left(r^{-\frac{1}{r}}\right)^{\frac{c}{a}} = r^{-\frac{1}{\epsilon} + \left(\frac{1}{\epsilon \log^r}\right)} = r^{-\frac{1}{\epsilon}} \times 10^{\frac{1}{\epsilon}} = \Delta^{\frac{1}{\epsilon}} = \sqrt[r]{a}$$

Senobar