

Subject: _____

Date: _____

جینی

$$\log_n^m = a \quad \log_{mn}^m + \log_{mn}^n = \log_{mn}^{m \cdot n} = b \Rightarrow b = 1 + \frac{a}{1+a} \quad -1$$

$$\frac{\log_n^m}{\log_n^m + 1} \quad \downarrow \quad [b] = 1$$

$$\frac{m}{\log_n^m} \rightarrow 0 \rightarrow \frac{0}{-1+1} \rightarrow D_f = (0, 1) \quad -2$$

u > 0

$$\left. \begin{array}{l} m^2 - 1 > 0 \\ \sqrt{m^2 - 1} \neq -1 \\ m^2 - m - 1 > 0 \end{array} \right\} D_f = (-\infty, -1) \cup (2, +\infty)$$

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

$$r \log_n^a + \frac{1}{r} \log_n^m = r \rightarrow r + \frac{1}{r} = r \rightarrow r + \frac{1}{r} + 1 = 0 \quad -3$$

$$t \leq \frac{1}{r} \rightarrow \log_n^a = \frac{1}{r} \rightarrow \sqrt{n} = a \rightarrow a = r$$

$$\begin{aligned} & (\log_n^a - \log_n^r) m^r + (r \log_n^r) n - (\log_n^a + \log_n^r) = 0 \Rightarrow \log_n^a m^r + \log_n^r n - \log_n^a - \log_n^r = 0 \\ & \log_n^a m^r - \log_n^r = 0 \end{aligned}$$

$$\log_n^a m^r = \log_n^r \Rightarrow \sqrt{r \log_n^a m^r + \log_n^r} = \sqrt{r \log_n^a m^r + \log_n^r}$$

$$\leq \frac{1}{r}$$

$$\frac{\log_n^a + 1}{\log_n^r + 1} \leq \frac{r}{r+1} \leq \frac{10}{19} \quad -4$$

TANDIS

$$\log_{10}^q = \frac{\log_{10}^p + 1}{\log_{10}^p + 1} = \frac{1^p}{1^p} = \frac{1^p}{1^p} \quad -9$$

$$\begin{aligned} \frac{1}{p} \log_{10}^p + \frac{1}{p} &= m \\ \log_{10}^q &= 1 + \frac{1}{p} \log_{10}^p = 1 + \frac{1}{p} \times \frac{p}{p} (m - \frac{1}{p}) \\ &= 1 + \frac{p}{p} m - \frac{1}{p} = \frac{p}{p} (m + 1) \\ \log_{10}^p &= (m - \frac{1}{p}) \frac{p}{p} \end{aligned} \quad -V$$

$$\left(\frac{p}{a}\right)^{p_{n-1}} = \left(\frac{a}{p}\right)^{p_{n-1}} \rightarrow \left(\frac{a}{p}\right)^{1-p_n} = \left(\frac{a}{p}\right)^{p_{n-1}} \rightarrow p_{n-1} + p_n - 1 = 0 \quad \begin{cases} m = -1 \text{ (log)} \\ n = \frac{1}{2} \end{cases} \quad -1$$

$$\log_{10}^{\frac{p}{p}} = \frac{p}{p}$$

$$\frac{1}{p} \log_{10}^b = \frac{p}{p} (1 + \log_{10}^p) \rightarrow \log_{10}^b = p \log_{10}^p \rightarrow b = p^p \quad -9$$

$$\log_{10}^{p \times p - 1} = \log_{10} 100 = p$$

$$\frac{1}{a+b} = \log_{10}^f \rightarrow \frac{1+b}{1+a} = \log_{10}^b \rightarrow b = f a \log_{10}^b \quad -10$$

$$b+c = pa \rightarrow c = pa - b \Rightarrow \frac{c}{a} = p - b \log_{10}^b = p - p \log_{10}^b$$

$$\left(p^{-\frac{1}{n}}\right)^{p-p(\log_{10}^a+1)} = p^{\frac{1}{p} \log_{10}^a} = a^{\frac{1}{p} \log_{10}^p} = \sqrt[p]{a}$$

TANDIS