

$$\begin{bmatrix} 1 \\ 1 \end{bmatrix} \quad \begin{bmatrix} \mu \\ 9 \end{bmatrix}$$

$$\mu^{A+B} = 1$$

$$A+B=0$$

$$\mu^{\mu A+B} = 9$$

$$\mu^{A+B} = \mu$$

19, VD

$$\mu A = \mu$$

$$A = 1$$

$$B = -1$$

$$f(0) = \mu^{(A \cdot x_0) + B} = \mu^{-1} = \boxed{\frac{1}{\mu}} \checkmark$$

(۲)

1

$$\mu^{\mu + \mu} = \mu^{\mu} + 1 \Delta$$

$$\mu^{\mu} = \Delta \quad \mu = \log_{\mu} \Delta$$

$$\mu^{\mu} = \mu \quad \mu = \log_{\mu} \mu$$

$$\Delta \cdot \mu^{\mu} = \mu^{\mu} + 1 \Delta$$

$$\mu^{\mu} - \Delta + 1 \Delta = 0$$

$$\mu^{\mu} = \Delta \quad \mu = \mu$$

$$\log_{\mu} \mu + \log_{\mu} \Delta = \log_{\mu} \Delta \checkmark$$

(۲)

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$$\log_{\mu} \mu + \log_{\mu} \mu = 1$$

$$\log_{\mu} \mu = 1 - \log_{\mu} \mu$$

$$\log_{\mu} \mu^{\mu} = \log_{\mu} \mu + \mu \log_{\mu} \mu = a + \mu b$$

$$b = 1 - a$$

$$\log_{\mu} \mu^{\mu} = \log_{\mu} \mu + \mu = a + \mu$$

$$a^{\mu} + \underbrace{(a + \mu b)}_{\mu - a} (a + \mu)$$

$$a^{\mu} + (\mu - a)(a + \mu) = a^{\mu} + \mu - a^{\mu} = \mu \checkmark$$

(۲)

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$$\log_{10} (x-1)^{\mu} (1-x)^{\mu} = \Delta$$

$$10^{\Delta} = (x-1)^{\mu} (1-x)^{\mu}$$

$$x = -9 \checkmark$$

$$\log_{\mu} 9 = \mu \checkmark$$

(۲)

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$$\log_{\mu} (x^{\mu} + \mu x + \mu)(x - \mu) = \mu$$

$$x = \sqrt[\mu]{16} \checkmark$$

$$\log_{\mu} \sqrt[\mu]{16} = \mu \checkmark$$

$$\Delta = (x^{\mu} + \mu x + \mu)(x - \mu)$$

$$x^{\mu} - \Delta = \Delta$$

$$x^{\mu} = 16$$

(۲)

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$$\log_{10} \frac{(r-x)}{(x-r)^r} = \log_{10} (r-x)(x-r)^r = 3 \quad 10^3 = (r-x)(x-r)^r \quad x = -1 \quad (2)$$

$$\log_{\sqrt{r}}^{\wedge} = 9 \quad \checkmark$$

$$r^r x = r^{2r} - r \quad x^r - r x - r = 0 \quad x = \frac{r \pm \sqrt{r^2}}{r} = \begin{matrix} \nearrow r + \sqrt{r} \\ \searrow r - \sqrt{r} \end{matrix} \quad (2)$$

$$\log_9^{r + \sqrt{r} - r} = \log_9^{\sqrt{r}} = \frac{1}{r} \quad \checkmark$$

$$r \log_r^r = \log_r^{\wedge} = \frac{1}{\wedge} \quad \log_r^{\wedge} = \frac{\wedge}{10} \quad r \log_r^{\wedge} = \log_r^9 = \frac{19}{10} \quad (2)$$

$$\log_r^{\wedge} + \log_r^9 = \log_r^{10} = \frac{r}{10} \quad \log_r^{10} = \frac{10}{r} \quad \checkmark$$

$$\log_r^r = \log_{r^r}^r = \frac{1}{r} \log_r^r = 0,1 \quad \log_r^r = 1,9 \quad \checkmark \quad \text{این 1,9 هست} \quad (1,15)$$

$$\log_r^9 = \frac{\log_r^9}{\log_r^{10}} = \frac{\log_r^r + \log_r^{1,9}}{\log_r^r + \log_r^{1,9}} = \frac{1 + 1,9}{1 + 1,9} = \frac{2,9}{2,9} = 1 \quad \text{نه } \frac{1}{4} !! \quad \boxed{\frac{13}{18}}$$

$$x_1, x_2 = \frac{b}{a} \quad -1 + x_2 = \frac{-1}{\log r} \quad x_2 = 1 - \frac{1}{\log r} \quad (2)$$

$$x_2 = \frac{-b}{a} \quad \frac{-b}{a} = 1 - \frac{1}{\log r} \quad \frac{b}{a} = \frac{1}{\log r} - 1$$

$$x_1 + x_2 = \frac{-1}{\log r} \quad \sqrt{r} \frac{b}{a} = r \frac{1}{r} \times \left(\frac{1}{\log r} - 1 \right) \quad \log_r^{10} - \log_r^r = \log_r^{\wedge}$$

$$r \log_r^{\wedge} = \wedge \log_r^r = \wedge \frac{1}{r} = \boxed{\sqrt{\wedge}} \quad \checkmark \quad \frac{1}{r} \times \log_r^{\wedge} = \log_r^{\wedge}$$