

$$\log_{mn}^m = \frac{\log_m^m}{\log_m^n} = \frac{1}{\log_m^n} \quad \text{بسیار زیاده}$$

$$\frac{r \log_m^m + \log_m^n}{\log_m^m + \log_m^n} = \frac{r + \log_m^n}{1 + \log_m^n} = \frac{r+a}{1+a} \Rightarrow 1 + \frac{1}{1+a} \Rightarrow [b] = \left[1 + \frac{1}{1+a}\right] = 1$$

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

$$ii) \log \sqrt{\frac{a}{1+\log \frac{1}{r}}} \quad \text{با مشتق گیری}$$

$$\frac{0}{-1} = 0 \quad \text{با مشتق گیری}$$

$$1 \cap r = (0, 1) \cup (2, \infty)$$

$$b) \log_F^{r-a-F} = \frac{r-a-F}{\sqrt{a^2-1}+1}$$

$$a^2 - a - F > 0 \quad (a - r)(a + 1) > 0 \quad \frac{-1 \pm \sqrt{1+4F}}{2} \quad (-\infty, -1) \cup (r, +\infty)$$

$$a^2 - 1 > 0 \quad a > 1 \Rightarrow a > 1 \text{ و } a < -1 \quad II$$

$$\sqrt{a^2-1} > 0 \quad \text{با مشتق گیری}$$

$$I \cap II = (-\infty, -1) \cup (r, +\infty)$$

$$\log_a^a = 1 \quad r + \frac{1}{r} + \frac{1}{r} = r \quad r + \frac{1}{r} = r \Rightarrow r^2 - r + \frac{1}{r} = 0$$

$$r^2 - r + 1 = (r-1)^2 + 1 \Rightarrow \frac{1}{r} = 1 \Rightarrow r = 1$$

$$\log_a^a = \frac{1}{r} \Rightarrow a = r \quad \left(r = \frac{1}{r}\right)$$

$$(\log 1 - \log r - \log r) a^r + r \log_m^n (\log r + 1 + \log r) = a^r a^r + a^r m - 1 = 0 \quad r a^r - 4 a - 11 = 0$$

$$\log a = \frac{\sqrt{A}}{1a} = \frac{\sqrt{r^2 + 11r}}{r} = \frac{1}{m}$$

$$\log_{1/r}^r = \frac{\log_r^r}{\log_r^{1/r}} = \frac{1 + \log_r^r}{1 + \log_r^r} = \frac{1+r}{1+r} \left(\frac{r}{r, 1}\right) = \frac{10}{19}$$

$$\log_r^r = \frac{1}{\log_r^r}$$

$$\log_{1/r}^r = \frac{\log_r^r}{\log_r^{1/r}} = \frac{1 + \log_r^r}{1 + \log_r^r} = \frac{1+r}{1+r} \left(\frac{r}{r, 1}\right) = \frac{10}{19}$$

$$\log_{10}^9 = \frac{\log_2^9}{\log_2^{10}} = \frac{1 + \log_2^9}{1 + \log_2^{10}} = \frac{1 + \frac{1}{19}}{1 + \frac{1}{10}} = \frac{\frac{20}{19}}{\frac{11}{10}} = \frac{20}{19} \cdot \frac{10}{11} = \frac{200}{209} \approx 0.957$$

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$$\frac{10g \cdot r_1 \cdot 10g \cdot r_2}{r_2 \cdot 10g \cdot r_1} = m$$

$$1 \log 2 + 1 \log 2 = 2 \log 2$$

$$(r_m - 1) \log r = r \log r \Rightarrow \frac{\log r}{\log r} = \frac{r_{m-1}}{r}$$

$$1 + \log_f^r = 1 + \frac{1}{r} \log_r^r$$

$$1 + \frac{\mu_{m-1}}{\epsilon} = \frac{\mu_1 \mu_m}{\epsilon} = \frac{\mu}{\epsilon} (m+1)$$

$$\left(\frac{\partial}{\partial r}\right)^{1.25} = \left(\frac{\partial}{\partial r}\right)^{1.25}$$

$$y_{A1} + y_{A2} - 1 = 0 \quad 5$$

$$2^{r_1 + r_2 - r} s^{-c}$$

$$\begin{pmatrix} a+r & a-1 \\ \in \mathbb{R} & \in \mathbb{C} \end{pmatrix}$$

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$$n = \frac{1}{\mu} \bar{y}$$

$$\log_{10}^{99+1} \Rightarrow \log_{10}^F \frac{\mu}{\nu}$$

$$10_A^b = \frac{r}{r'} (1 + 10_r^r) \Rightarrow \frac{1}{r} 10_A^b = \frac{r}{r'} 10_r^r \Rightarrow 10_A^b = 10_r^r$$

$$1 \circ \theta_{|c}^{r(r')-1} = 1 \circ \theta_{|c}^{1 \circ \circ} \circ r$$

$$\frac{1}{\frac{-b}{r(-fa)}} = \log_{1c}^f \Rightarrow \frac{1a}{b} = \log_{1c}^f \Rightarrow \frac{fa}{b} = \log^r \Rightarrow ra = \frac{\log^r}{r} b$$

$$\xrightarrow{I} Pa - b + c \Rightarrow b \left(\frac{1 - \theta^r}{r} - 1 \right) = c$$

$$\left(r^{-\frac{1}{n}}\right)^{\frac{c}{q}} = \left(r^{-\frac{1}{n}}\right)^{\frac{b\left(\frac{\log r}{p}-1\right)}{b\left(\frac{\log r}{f}\right)}} = \left(r^{-\frac{1}{n}}\right)^{\frac{\frac{\log r}{p}-1}{\log r}} = r^{-\frac{1}{n} \frac{(\log r)-1}{\log r}}$$

$$r^{-\frac{1}{f} \log \frac{r}{100}} = r^{\log \frac{r}{100}^{-\frac{1}{f}}} = \frac{r}{100}^{-\frac{1}{f}} = \left(\frac{100}{r}\right)^{\frac{1}{f}}$$