

A

$$1 = \mu^A + B \quad A+B=0 \quad -A=B$$

$$9 = \mu^{2A+B} \Rightarrow \mu^{2A} = 9 \quad (A, 1) \Rightarrow A=1, B=-1$$

$$\mu^{An+B} = \mu^{n-1} \xrightarrow[\text{تلاقی با } \mu^0]{\text{تلاقی با } \mu^1} \mu^{-1} = \frac{1}{\mu}$$

$$r^m + 10 = r^{m+r} \quad r^{2m} + 10 = r^{m+r} = r^m \times r^r$$

$$(r^m)^r + 10 = r^m \times r^r \rightarrow (r^m)^r + 10 = r^m \times r \quad r^m = t$$

$$t^r + 10 = r t \Rightarrow \left. \begin{matrix} t = r \\ t = 0 \end{matrix} \right\} \rightarrow r^m = r, 0 \Rightarrow m = \log_r r = \log_r 0$$

$$(\log_{r1})^r + \log_{r1}^{1+r} \log_{r1}^{1+r} \rightarrow \log_{r1}^{(r \times r)} \times \log_{r1}^{(r \times r)} = (1 + \log_{r1}^v) \log_{r1}^{(r \times r)}$$

$$\log_{r1}^{(r \times r)} = \log_{r1}^{(r)} + \log_{r1}^{(r)} = r + \log_{r1}^{(r)} \quad (1 + \log_{r1}^v)(r + \log_{r1}^{(r)}) =$$

$$r + \log_{r1}^{(r)} + r \log_{r1}^v + \log_{r1}^v \log_{r1}^{(r)} = r + \log_{r1}^{(r)} (\log_{r1}^{(r)} + \log_{r1}^v) + \log_{r1}^v = r + \log_{r1}^{(r)} = r$$

$$\log_r^{(n^r - r^{n+1})} + r \log_r(1-n) = \log_r^{(n-1)^r} + r \log_r(1-n) = 0$$

$$\log_r(1-n) = 0 \Rightarrow \log_r^{1-n} = 1 \Rightarrow 1-n = 1 \rightarrow n = 0$$

$$\log_r^{-n} = \log_r^0 = 1$$

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

$$n^r - 1 = r \rightarrow n^r = r + 1 \Rightarrow n = \sqrt[r]{r+1} \Rightarrow \log_r^{\frac{r}{\sqrt[r]{r+1}}} = r \log_r^{\frac{r}{\sqrt[r]{r+1}}} = r$$

$$g^{r-n} = g^{\frac{1}{(n-r)^r}} = g^{(r-n)} = g^{\frac{1}{(r-n)^r}} = g^{(r-n)} = g^{(r-n)^{-r}} = g^{\frac{r-n}{(r-n)^r}}$$

$$= g^{(r-n)^{-r}} = \mu \rightarrow r-n = 1 \rightarrow n = -1$$

$$g^{\frac{-n}{\sqrt{r}}} = g^{\frac{1}{\sqrt{r}}} = g^{\frac{r}{r\sqrt{r}}} = 4g^{\frac{r}{r}} = 4$$

$$\mu^{n-r} = \mu^{km} \rightarrow n-r = km \rightarrow n = km+r \rightarrow n = \frac{r \pm \sqrt{rk}}{r}$$

$$\begin{cases} n = r + \sqrt{4} \rightarrow g^{\frac{n-r}{4}} = g^{\frac{\sqrt{4}}{4}} = \frac{1}{r} \\ n = r - \sqrt{4} \rightarrow n-r < 0 \end{cases}$$

$$g^{\frac{1}{11}} = \frac{g^{\frac{1}{rv}}}{g^{\frac{1}{rv}}} = \frac{g^{\frac{r}{rv}}}{\frac{1}{r} g^{\frac{1}{rv}}} = \frac{\frac{a}{r}}{\frac{1}{r}(\frac{a}{r} + r)} = \frac{\frac{a}{r}}{\frac{1}{r} \frac{a+r^2}{r}} = \frac{a}{a+r^2}$$

$$\frac{10}{11} = \frac{a}{v}$$

$$\frac{1}{r}(g^{\frac{r}{rv}} + g^{\frac{1}{rv}})$$

$$g^{\frac{9}{11}} = \frac{g^{\frac{9}{r}}}{g^{\frac{11}{r}}} = \frac{g^{\frac{9}{r}} + g^{\frac{r}{r}}}{g^{\frac{9}{r}} + g^{\frac{r}{r}}} = \frac{\frac{1}{r} + \frac{a}{r^2}}{1 + \frac{r}{a}} = \frac{11}{11}$$

$$n = -1 \quad a(g^r)^n + a + b g^r = g^{r-a} + g^r = 0$$

$$g^{r-a+b} = g^{1-a} = 0 \rightarrow g^{\frac{r-a+b}{1-a}} = 0 \rightarrow \frac{r-a+b}{1-a} = 1$$

$$r \times r = r \times a \rightarrow g^a = b \rightarrow \frac{b}{a} g^a \rightarrow a^{\frac{1}{r}} \sqrt{a}$$

$$\left(\frac{1}{\sqrt{r}} g^a = a^{\frac{1}{\sqrt{r}}} \right)$$