

$$f(x) = p^{Ax+B} \quad f(1) = p^{A+B} = 1 \quad \begin{cases} A+B=0 \\ pA+B=p \end{cases}$$

$$y = x^2 \quad f(p) = p^{A+B} = p \quad \begin{cases} A+B=0 \\ pA+B=p \end{cases}$$

$$\underline{A=1}$$

$$\underline{B=-1}$$

$$f(x) = p^{x-1} \rightarrow p^{x-1} = 0 \quad | \text{نمی‌تواند} \quad x=1$$

$$\log_p(\varepsilon^x + 1) = x + p \quad p^{(x+p)} = \varepsilon^x + 1$$

$$p^x \cdot 1 = \varepsilon^x + 1$$

$$p^x = t \quad t^p - 1t + 1 = 0 \quad (t-p)(t-1) = 0$$

$$\log_p \varepsilon + \log_p p = \log_p 1$$

$$\left. \begin{array}{l} t=1 \quad p=1 \quad x = \log_p 1 \\ t=p \quad p^x = p \quad x = \log_p p \end{array} \right\}$$

$$(\log_p p)^p + \log_p(\varepsilon p) \log_p(p p) =$$

$$\log_p \varepsilon p = \log_p \frac{p^p}{p} = \log_p p^p - \log_p p = p - 1 = p - 1$$

$$\log_p p p = \log_p p^p = p + \log_p p$$

$$(\log_p p)^p + (p + \log_p p) (p - \log_p p) = \cancel{(\log_p p)^p} + \varepsilon - \cancel{(\log_p p)^p} = \varepsilon$$

$$\log(x^p - px + 1) + p \log(1-x) = \varepsilon$$

$$\log(1-x)^p + p \log(1-x) = p \log(1-x) + p \log(1-x) \quad | \log(1-x) = \cancel{p \log(1-x)}$$

$$1-x=1 \quad x=0$$

$$\log_p^{-2} = \log_p p = p$$

$$\log_p(x^p + px + \varepsilon) + \log_p(x-p) = p$$

$$\log_p(x^p + px + \varepsilon)(x-p) = p \rightarrow \log_p x^{p-1} = p$$

$$x^{p-1} = 1$$

$$x = \sqrt[p]{1} = 1$$

$$\log_p \frac{x^p}{p} = \log_p \frac{p^p}{p} = \frac{p}{p} \log_p p = \varepsilon$$

$$\log(x-2) - \log \frac{1}{(x-1)^r} = \mu$$

$$\log \frac{x-2}{(x-1)^r} = \log(x-1)^{\mu} \quad (x-1)^{\mu} = 1000$$

$$(x-1) = 10 \quad \mu \begin{cases} \sqrt[10]{1000} \\ \sqrt[10]{100} \end{cases}$$

$$\log \frac{x}{\sqrt{r}} = \log \frac{1}{\sqrt{r}} = \log r^{\frac{1}{2}} = \frac{\mu}{2} = 4$$

$$\mu x^r - r = \lambda$$

$$\mu x^r - r = \mu \epsilon x$$

$$x^r - r = \epsilon x \quad x^r - \epsilon x - r = 0 \quad \Delta: 14 + 1 = 15$$

$$x = \frac{r + \sqrt{r^2 + 4r}}{2} = r + \epsilon \sqrt{4}$$

$$\log \frac{x-r}{4} = \log \frac{\sqrt{4}}{4} = \left(\frac{1}{2}\right)$$

$$\log \mu^r = \frac{\omega}{\lambda}$$

$$\log \frac{1}{\lambda} = \frac{\log \frac{1}{\mu}}{\log \frac{1}{\mu}} = \frac{r \log \mu}{\log \mu + \log \mu} = \frac{(r \times \frac{\omega}{\lambda})}{\frac{\omega}{\lambda} + r} = \frac{\frac{\omega}{\lambda}}{\frac{\omega}{\lambda} + r} = \frac{\omega}{\omega + r \lambda} = \left(\frac{\omega}{\lambda}\right)$$

$$\log \mu^r = \lambda$$

$$\log \frac{4}{11} = \frac{\log \frac{4}{\mu}}{\log \frac{1}{\mu}} = \frac{\log \mu^r + \log \mu^r}{\log \mu^r + \log \mu^r} = \frac{\frac{1}{r} + \frac{\lambda}{r}}{\frac{\lambda}{r} + 1} = \frac{\frac{1+\lambda}{r}}{\frac{\lambda+r}{r}} = \frac{1+\lambda}{\lambda+r} = \left(\frac{1+\lambda}{\lambda+r}\right)$$

$$(a \log r) x^r + ax + b \log r = c \quad -n = -1 \quad a \log r - a + b \log r = 0$$

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

$$(\sqrt{r})^{\frac{b}{a}} = ?$$

$$(\sqrt{r})^{\frac{b}{a}} = \sqrt{a}$$

$$r^{\frac{b}{a}} = a$$

$$r^{(a+b)} = 10^a \rightarrow \log_r 10^a = a+b$$

$$a \log_r 10 = a+b$$

$$\log_r 10 = \frac{a+b}{a} = 1 + \frac{b}{a}$$