

Calculus

(u, v)

$$p^{Ax+B} = x^p \quad x=1 \rightarrow p^{A+B} = 1 = 1 \Rightarrow A+B=0 \quad (1)$$

$$p^{10A+B} = 9 = 3^2 \Rightarrow pA+B=2 \quad (2)$$

$$B = -A \Rightarrow pA - A = 2 \quad pA = 2 \quad A = \frac{2}{p}$$

$$f(0) = 10^B = 10^{-1} = \frac{1}{10} \quad B = -1$$

$$p^x + 10 = p^{x+p} \quad (p)$$

$$p^x = p^x \Rightarrow p^x + 10 = p^{x+p}$$

$$t = p^x \Rightarrow t + 10 = At$$

$$t + 10 - At + 10 = 0 \quad (t-p)(t-10) = 0$$

$$p^x = p \Rightarrow x = \log_p p$$

$$p^x = 10 \Rightarrow x = \log_p 10$$

$$\log_p p + \log_p 10 = \log_p 10$$

$$\log_{p^p} p^p = \log_{(p^p)^p} p^p = \log_p p + p \log_p p \quad (p)$$

$$\log_{p^p} p^p = \log_{(p^p)^p} p^p = p \log_p p + p \log_p p \quad (p)$$

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

$$p(\log_p p)^p + p \log_p p \cdot p \log_p p + p(\log_p p)^p$$

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

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

$$\log((x-1)^p) + p \log(1-x) = \log(1-x)^p \quad (1, \log)$$

$$p \log|x-1| + p \log(1-x)$$

$$|x-1| = 1-x \Rightarrow 1-x > 0 \Rightarrow x < 1$$

$$p \log(1-x) + p \log(1-x) = 0$$

$$2p \log(1-x) = 0 \quad \log(1-x) = 0$$

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

$$\log(-x) = \log 1$$

$\log = 0$
 $p = p$

$$(x-r)(x^r+r^r x+r) = (x^{\mu}-1) = 1 \rightarrow x = \sqrt[r]{1+r}$$

$$y_{\mu}^{\frac{1}{r}} = r$$

$$\log((r-x) \times (x-r)^r) = \mu \tag{4}$$

$$(x-r)^r = (r-x)^r$$

$$(r-x) \times (r-x)^r \Rightarrow \log(r-x)^{\mu} = \mu$$

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

$$\log \frac{(r-x)}{\sqrt[r]{r}} = \log \frac{1}{\sqrt[r]{r}}$$

$$\Lambda = r^{\mu}, \sqrt[r]{r} = r^{\frac{1}{r}} \Rightarrow \log \frac{1}{\sqrt[r]{r}} = \frac{\mu}{r} = 4$$

$$a^r \times a^{-r} \rightarrow a_1 = r + \sqrt[r]{r}, a_2 = r - \sqrt[r]{r} \tag{V}$$

$$y_{a-r} = y_{\frac{\sqrt[r]{r}}{r}} = \frac{1}{r}$$

$$\log \frac{1}{1/r} = \frac{\log 1}{\log \frac{1}{r}} \rightarrow \mu \log \frac{1}{r} = \frac{1}{\Lambda}$$

$$\log \frac{1}{r} = \frac{1}{\Lambda + r} = \frac{1}{\Lambda}$$

$$\frac{1/r}{1} = \frac{1/r}{1/r} = \frac{1}{\sqrt[r]{r}}$$

$$\log \frac{1}{1/r} = \frac{\log 1}{\log \frac{1}{r}} \rightarrow \log \frac{1}{r} + \log \frac{1}{r} = \log \frac{1}{r} = \frac{1}{r}$$

$$\log \frac{1}{r} = \frac{1}{r} + 0.18 = 1.18$$

$$\log \frac{1}{r} = 0.18 + 1 = 1.18 \quad \log \frac{1}{1/r} = \frac{1.18}{1.18} = \frac{1.18}{1.18}$$

$$(ay^r) - a + by^r = 0 \rightarrow a(1 - y^r) = by^r$$

$$\rightarrow ay^a = by^r \rightarrow \frac{b}{a} = y^{\frac{a}{r}} \rightarrow (\sqrt[r]{r})^{\frac{a}{r}} = \sqrt{a}$$