

$$\log_{10} a = 1.9, \log_{10} p = 1.9 \rightarrow a = 10^{1.9}, p = 10^{1.9} \Rightarrow a = (10^{1.9})^{1.9} = 10^{3.61}$$

$$y = p_x w = p_x p^b y = p^{b+g} \quad , \quad \omega = p_x \omega = p^b x = p^{b+f} = p^f$$

$$\log_{10} \frac{P_{10}}{P} = \frac{P_{10}}{P} = 0.90$$

$$\log_n n = m$$

$$\log_{\lambda} \lambda = m$$

$$\lambda^m = \lambda \rightarrow (\lambda^{\lambda})^m = \lambda^{\lambda^m} \rightarrow \lambda^m = \log_{\lambda} \lambda^{\lambda^m} \rightarrow \lambda^m$$

$$\log_p p^q = q \rightarrow p^q = p^q \rightarrow (p^p)^q = p^{p \cdot q} \rightarrow p^q = \log_p p^{p \cdot q} = p + \log_p p^q$$

$$\alpha = \frac{p + \log p}{p} = 1 + \log \frac{p}{p} \rightarrow \alpha = 1 + \frac{p-1}{p} \rightarrow \alpha = \frac{p+p-1}{p}$$

$$(v/f)^{p_{n-1}} = \left(\frac{v \omega}{\omega} \right)^{p_{n-1}} \rightarrow (v \omega)^{p_{n-1}} = (\omega^{p_{n-1}} v^{p_{n-1}})^{p_{n-1}} \rightarrow v^{p_{n-1}} (\omega^{p_{n-1}})^{p_{n-1}} = v^{p_{n-1}} \omega^{p_{n-1}^2}$$

$$(a) \omega^p \times (\omega^{-p}) = \omega^p \times \omega^{-p} \rightarrow \omega^{p-p} = \omega^0 = 1$$

$\nu \rightarrow \nu_m - 1/2 - \nu_m \nu \rightarrow \nu_m \nu + \nu_m - 1$
 $\omega \rightarrow \nu_m \nu + \nu_m - 1$

$$\omega \rightarrow \omega_n + \omega_{m-1}$$

$$\log_{\Lambda} b = \frac{p}{p(1+a)} \rightarrow b = \Lambda^{\frac{p}{p(1+a)}} \rightarrow \log b - \Lambda = \log_{\Lambda} \Lambda^{\frac{p}{p(1+a)}} - \Lambda \rightarrow \log b - \Lambda = \Lambda \left(\log_{\Lambda} \Lambda^{\frac{p}{p(1+a)}} - 1 \right)$$

$$\rightarrow \psi_b = \Lambda = \Lambda(\psi_x, r^{a-1}) \quad \log \psi_b = \Lambda$$