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$$z^r \leq r^{A+B} \rightarrow z \leq 1, r \quad (1)$$

$$r^r \leq r^{A+B} \quad r \leq r^{A+B}$$

$$1 \leq r^{A+B} \quad (0 \leq A+B) r-1 \rightarrow$$

$$rA \leq r \rightarrow A \leq 1 \rightarrow B \leq -1$$

$$f(x) \leq r^{x+1} \rightarrow f(0) \leq \frac{1}{r} \rightarrow (0, \frac{1}{r})$$

$$\log_r r^{x+1\omega} \leq x+r \quad r^{x+1\omega} \leq r^{x+r}$$

$$r^{x+1\omega} + 1\omega \leq r^{x+r} \quad a^r - na + 1\omega \leq$$

$$(a-r)(a-\omega) \leq 0 \rightarrow a \leq r, \omega \leq r^x$$

$$\log_r r^x = x / a \leq r^x \quad \log_r \omega = x$$

$$\log_r r^x + \log_r \omega \leq \log_r r^{1\omega}$$

$$\log_r r^x \leq \log_r r^m - \log_r r^m \rightarrow \log_r r^x \leq 1-m \quad (2)$$

$$m^r + (r-rm+m)(r-rm+r^m) \leq m^r \quad m^r + \dots$$

$$y \log \frac{(1-x)}{1-x \leq 10} + r \log \frac{(1-x)}{x \leq 9} \leq \omega \quad \log^{1-x} \leq 1 \rightarrow$$

$$\log(-(-9))$$

$$(x^r + r^r + \epsilon)(x-r) \leq x^r + rx^r + \epsilon x - rx^r - \epsilon x \wedge \omega$$

$$\leq x^r - r \quad \log_r x^{r-1} \leq r \rightarrow x^r - r \leq r \rightarrow x^r \leq 14$$



$$a \log^r - a + b \log^r = 0$$

(10)

$$b \log^r = a - a \log^r \quad b \log^r = a(1 - \log^r)$$

$$\frac{b}{a} = \frac{\log^{10} - \log^r}{\log^r} = \frac{\log^a}{\log^r} = \log^{\frac{a}{r}}$$

$$(\sqrt{r})^{\log^a} = \omega^{\log^{\frac{a}{r}}} = \omega^{\frac{1}{r} \log^r} = \omega^{\frac{1}{r}} = \sqrt[r]{\omega}$$