

$$\left. \begin{aligned} D_f &= \{x \mid x > 0\} \\ D_{f \circ g} &= \{x \mid \log_r(x) > 0\} \rightarrow \{x \mid x > 1\} \end{aligned} \right\} \rightarrow D_{f \circ g} = \{x \mid x > 1\}$$

$$D_g = \{x \mid x > 0\} \rightarrow D_{g \circ f} = D_f = [r, +\infty), f(u) \in D_g \rightarrow \sqrt[n-1]{\log_r x} = r \rightarrow n-1 > 1 \rightarrow n > 2$$

$$\left. \begin{aligned} f \circ g(u) &= r(u^r - r^n + 1) - \omega + r^n - r^n + 1 \\ g \circ f(u) &= (r^n - \omega) - r^n(r^n - \omega) + 1 + r^n - r^n + 1 \end{aligned} \right\} f \circ g(u) = g \circ f(u)$$

$$r^n - r^n + 1 = r^n - r^n + 1 \rightarrow r^n - r^n + 1 = r^n - r^n + 1 \rightarrow r^n - r^n + 1 = r^n - r^n + 1$$

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$$g(f(u)) = \omega n^r + 11$$

$$g(r) = \omega n^r + 11 \rightarrow g(t) = \frac{\omega}{e} (t^r + 11)$$

$$g(u) = \frac{\omega}{e} n^r + 11$$

$$g(u-v) = \frac{\omega}{e} (u-v)^r + 11 \xrightarrow{\text{min}} (1, 11) \rightarrow \text{min} = 11$$

$$\left. \begin{aligned} f \circ g(u) &= f(g(u)) = r^r g(u) - \varepsilon \\ r^r g(u) - \varepsilon &= r^r n^r - \varepsilon_{n-1} \\ g(u) &= n^r - \varepsilon_{n-1} \\ g(u) &= (n-1)^r \end{aligned} \right\}$$

$$\left. \begin{aligned} g \circ f(u) &= g(r^n - \varepsilon) = (r^n - \varepsilon - 1)^r \\ g \circ f(u) &= r^n - \varepsilon_{n-1} + r^n \end{aligned} \right\}$$

$$r(g(u)) = r^r f(u) - 1 \varepsilon \rightarrow g(u) = \frac{r^r}{r} f(u) - V$$

$$f \circ g = -n + \omega \rightarrow f(u) = \frac{r^r}{r} f(u) + V \rightarrow \frac{1}{r} f(u) + V \rightarrow f \circ g(u)$$

$$\Rightarrow -\frac{1}{r} f(u) + V \rightarrow -n + \omega \quad f(u) = r^n + \varepsilon \quad \left. \begin{aligned} f \circ g(u) &= -n + \varepsilon \rightarrow n = \frac{1}{r} \\ g(u) &= \frac{r^r}{r} (r^n + \varepsilon) - V \rightarrow g(u) = r^n - 1 \end{aligned} \right\}$$

$$\log(u) = q \log_r^n \rightarrow n \log_r^q = n^r$$

$$\log(u) \leq \log(u)$$

$$n^r \leq r_m$$

$$\log(u) = \log_r^n \rightarrow \log_r^{r^n} = r_m$$

$$\frac{n^r - r_m \leq 0}{\frac{0}{-d} + \frac{r}{d}} \rightarrow n \in [0, r]$$

$\sum_{n=0}^{\infty} n^r \leftarrow r, 1 > 0$

$$f\left(\frac{n^r - r}{n}\right) \leq n^r + n \cdot \varepsilon - \frac{r}{n} + \frac{\varepsilon}{n^r}$$

$$\frac{n^r - r}{r} \leq \frac{n - r}{r} \xrightarrow{\text{J. r.}}$$

$$\Rightarrow \left(n - \frac{r}{n}\right)^r + \left(n - \frac{r}{n}\right) = \left(n^r - \varepsilon + \frac{\varepsilon}{n^r}\right) f(n) - \frac{r}{n}$$

$$\left(n - \frac{r}{n}\right)^r \leq n^r - \varepsilon + \frac{\varepsilon}{n^r}$$

$$f\left(n - \frac{r}{n}\right) \leq \left(n - \frac{r}{n}\right)^r + \left(n - \frac{r}{n}\right)$$

$$f(u) \leq n^r + n$$

$$\log(u) = \log_r^{-n^r + \Lambda n} \rightarrow D_{\log} = \frac{\mathbb{R}}{\log} : g \in D_{\log} = (0, \Lambda)$$

$$\mathbb{R} \log = \mathbb{R} \rightarrow A \cap B = (0, \Lambda)$$

$$-n^r + \Lambda n > 0 \quad \frac{0}{-d} + \frac{\Lambda}{d} = \Rightarrow 1, r, r', \varepsilon, \omega, \eta, \nu \rightarrow \sum_{n=0}^{\infty} \nu$$

$$f \circ f(u) = 1 - \frac{r}{n} f^r(u) \Rightarrow f(f(u)) = 1 - \frac{r}{n} f^r(u) \Rightarrow f(u) = 1 - \frac{r}{n} u^r$$

$$h(g(u)) = h(u-1) \rightarrow (u-1)^r + r(u-1) + 1 = (u-1)^r + r - 1$$

$$h(g(u)) = f(u) \rightarrow n^r - \frac{r}{n} u^r + \frac{r}{n} u - 1 + \frac{r}{n} \cdot 1 \leq 1 - \frac{r}{n} u^r$$

$$n^r + \omega n - \frac{r}{n} > 0 \rightarrow n^r - r \neq \omega n \rightarrow \boxed{\text{J. r. b. b.}}$$

$$\left. \begin{aligned} f(u) &= n - \frac{r}{n} \\ g \circ f(u) &= a n^r + r_n \\ g(r) &= \Lambda \end{aligned} \right\} \Rightarrow$$

$$g\left(n - \frac{r}{n}\right) = a n^r + r_n$$

$$g(r) = \Lambda$$

$$n - \frac{r}{n} \leq r \xrightarrow{r=n} n^r - \frac{r}{n} - \varepsilon = 0 \rightarrow n \leq 1 \rightarrow -a \cdot r = \Lambda \rightarrow a = -b$$

$$n \leq \varepsilon \rightarrow a \varepsilon a + \Lambda = \Lambda \rightarrow a = 0$$

J. r. b. b.