

$q \log_r^m \leq \log_r^m q$
 $2 \log_r^9 \rightarrow n \neq 0$
 $2 \log_r^9 \rightarrow n \log_r^9 \rightarrow n^r \leq r n \rightarrow n^r - r n \leq 0 \rightarrow \frac{c}{r} \rightarrow n \in [0, r]$
 $(0, r) \rightarrow \{r, 1\} \rightarrow (0, r] \rightarrow \text{INTS}$

$f(n - \frac{r}{m}) = (n - \frac{r}{m})^r + (n - \frac{r}{m})$
 $f(n) = n^r + n$

$f(g(m)) \rightarrow D_{f \circ g} \cdot x \in D_g, g(m) \in D_f \rightarrow \Lambda n - n^r > 0$
 $\rightarrow R_{f \circ g} \rightarrow \log_r^{m-n^r} \rightarrow (-\infty, \frac{r}{r}] \rightarrow (-\infty, 1]$
 $\max(\Lambda n - n^r) = \frac{r}{r} \cdot 2$
 $n \neq 1, 0$
 $A \cap B = [0, 1]$

$f \circ f(m) = f(f(m)) \xrightarrow{f(m)+f(1)=1-r+r} f(m) = 1-r n^r$
 $h(g(m)) = (m-1)^r + r(m-1) + 1 = m^r - r n^r + r m - 1 + r m - r + 1 = m^r - r n^r + 2 m - r$
 $m^r - r n^r + 2 m - r = 0 \rightarrow m^r = r - 2 m + r$

$f(m) = r \rightarrow \frac{m^r - r}{m} = r \rightarrow m^r - r m - r = 0 \rightarrow (m-r)(m+1) = 0$
 $g(f(1)) = 1 = a m^r + r m \rightarrow 1 = 4 a + 1 \rightarrow a = 0$
 $g(f(-1)) = 1 = a m^r + r m \rightarrow 1 = -a - r \rightarrow a = -1$

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$x \in D_f \quad x-1 \rightarrow x > 1, \log_r^{(m-1)} \geq 0 \rightarrow x-1 \rightarrow x > 1 \rightarrow m > 2$
 $f(m) \in D_g \quad g(m) = \sqrt{(m^r - r m + r)} = \sqrt{(m-r)^r} \rightarrow m = r, D_g = \{r\} \rightarrow f(m) = r$
 $m = 14 \rightarrow 14 = m-1 \rightarrow r = \log_r^{m-1} = \log_r^{13} = \sqrt[r]{13} = \sqrt[r]{\log_r^{(m-1)}}$

$D_{g \circ f} = \{14\}$

$f(g(m)) = g(f(m)) \rightarrow r m^r - 4 m + 1 = r m^r - 4 m + r$
 $\frac{m^r - 4 m + 1}{m^r - 4 m + 1} = \frac{r m^r - 4 m + r}{r m^r - 4 m + r}$
 $r m^r - 4 m + 1 = r m^r - 4 m + r$
 $r m^r - 4 m + 1 = r m^r - 4 m + r$

$g(r m) = g(f(m)) = 2 m^r + 11$
 $r m \rightarrow m = \frac{r}{r} \rightarrow 2 m^r + 11 = \frac{r}{r} + 11$
 $g(1) = 2 \frac{r}{r} + 11 \rightarrow g(m-v) = 2 \frac{(m-v)^r}{r} + 11 = \frac{2(m^r - r m + r)}{r} + 11$

$\frac{2}{r} m^r - \frac{r}{r} m + \frac{r+11}{r} = g(m-v)$
 $\frac{r}{r} = V = -\frac{b}{r a}$
 $\frac{2}{r} \times 11 - \frac{r}{r} \times V + \frac{r+11}{r} = 11 \rightarrow \frac{22}{r} - V + \frac{r+11}{r} = 11$

$f(g(m)) \rightarrow r g(m) - r = r m^r - 4 m - 1 \rightarrow r(g(m)) = r m^r - 4 m + r$
 $g(m) = m^r - r m + 1$
 $g(f(m)) = (r m - r + 1)^r = (r m - r + 1)^r$

$f(g(m)) = r g(m) + r \rightarrow \frac{r}{r} \frac{r}{r} \rightarrow \frac{r}{r} = r \rightarrow a = -1$
 $(f-g)(m) = -m + r$
 $f-g(m) = r(f(m) - g(m)) + f(m) + r = -r m + 10 - 12 = -r m - 2 = -f(m)$
 $-r m - 2 = -f(m) \rightarrow f(m) = r m + 2$