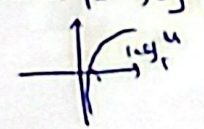
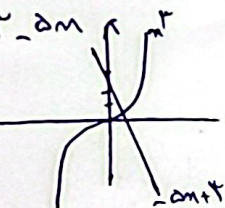


$q \log_r^m \leq \log_r^q m$
 $2 \log_r^q \rightarrow n \neq 0$
 $n \log_r^q \rightarrow n \log_r^q \rightarrow n^r \cdot r m \rightarrow n^r \cdot r m \cdot \dots \rightarrow \frac{c}{r} \cdot r$ $n \in [0, r]$ SS
 $(ur) = \{r, 1\} = (0, r] \rightarrow \text{INTS}$

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

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


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


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

B. 100%
 100%

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

$D_{f \circ g} = \{1, r\}$
 $f(g(m)) = g(f(m)) \rightarrow rm^r - 4m + 1 = 2m^r - 4m + 1$ (1)
 $\frac{m^r - 4m + 1}{m^r - 4m + 1} = \frac{rm^r - 4m + 1}{rm^r - 4m + 1}$
 $\frac{rm^r - 4m + 1}{rm^r - 4m + 1} = \frac{rm^r - 4m + 1}{rm^r - 4m + 1}$
 $\frac{rm^r - 4m + 1}{rm^r - 4m + 1} = \frac{rm^r - 4m + 1}{rm^r - 4m + 1}$

$g(rm) = g(f(m)) = 2m^r + 11$
 $rm = t \rightarrow m = \frac{t}{r} \rightarrow 2m^r + 11 = 2\frac{t^r}{r^r} + 11$
 $g(t) = 2\frac{t^r}{r^r} + 11 \rightarrow g(m-v) = 2\frac{(m-v)^r}{r^r} + 11 = \frac{2(m^r - r m^{r-1} v + \dots)}{r^r} + 11$
 $\hookrightarrow \frac{2}{r^r} m^r - \frac{2r}{r^r} m^{r-1} v + \frac{r^2}{r^r} m^{r-2} v^2 \dots$
 $\left| \frac{\frac{2}{r^r} m^r}{\frac{2r}{r^r} m^{r-1} v} = V = -\frac{b}{ra} \right|$
 $\frac{2}{r^r} \times 29 - \frac{2r}{r^r} \times v + \frac{r^2}{r^r} \times 11 \rightarrow \frac{2}{r^r} \times 29 - \frac{2r}{r^r} \times v + \frac{r^2}{r^r} \times 11$

$f(g(m)) \rightarrow rg(m) - r = rm^r - 4m - 1 \rightarrow r(g(m)) = rm^r - 4m + r$ (2)
 $\hookrightarrow g(m) = m^r - 2m + 1$
 $g(f(m)) = (rm - \frac{r-1}{r})^r = \frac{r^r m^r - r m^{r-1} + \dots}{r^r}$
 $g(m) = (m-1)^r$

$f(g(m)) = rg(m) + r \rightarrow \frac{r}{r} \frac{r}{r} \rightarrow \frac{r}{-a} = r \rightarrow a = -1$ (3)
 $(f-g)(m) = -m + 2$
 $12 = rf(m) - rg(m) \rightarrow r(f(m) - g(m)) + f(m) + 2 = -rm + 10 - 12 = -f(m)$
 $-rm - 12 = -f(m) \rightarrow f(m) = rm + 12$