

$y = 1 - \log_c (am - b)$ $\frac{n=0, y=r}{\Rightarrow} 1 - \log_c^{-b} = r \Rightarrow b = \frac{r}{c-1}$
 $-1 = \log_c^{-b} \Rightarrow c^{-1} = \frac{r}{c-1} \Rightarrow c-1 = r \Rightarrow c = r+1$
 $\frac{n=0, y=r}{\Rightarrow} m = -1, y=0 \rightarrow \left. \begin{matrix} b+c = \frac{r}{c} \\ bc = -1 \end{matrix} \right\} \frac{1}{c} = -b \Rightarrow -bc = 1 \Rightarrow bc = -1$
 $\frac{n=0, y=r}{\Rightarrow} m = 0, y=r \rightarrow \left. \begin{matrix} b+c = \frac{r}{c} \\ bc = -1 \end{matrix} \right\} \frac{1}{c} = -b \Rightarrow -bc = 1 \Rightarrow bc = -1$
 $\Rightarrow \left(c = r+1 \right) \Rightarrow \left(b = \frac{r}{r} \right) \Rightarrow b = 1$
 $\frac{n=0, y=r}{\Rightarrow} m = 0, y=r \rightarrow \left. \begin{matrix} b+c = \frac{r}{c} \\ bc = -1 \end{matrix} \right\} \frac{1}{c} = -b \Rightarrow -bc = 1 \Rightarrow bc = -1$

$f(m) = 1 + c \times r^{a+bm}$ $\frac{n=0}{\Rightarrow} \frac{r}{c} = 1 + c \times r^a \Rightarrow c \times r^a = \frac{r}{c} - 1 = \frac{r-c}{c}$
 $\frac{n=1}{\Rightarrow} m = 1, y=0 \rightarrow \frac{c-1}{a=-1} \rightarrow -1 \times r^{b-1} = -1 \Rightarrow r^{b-1} = 1 \Rightarrow b-1 = 0 \Rightarrow b = 1$
 $\frac{n=0, y=r}{\Rightarrow} m = 1, y=0 \rightarrow \frac{c-1}{a=-1} \rightarrow -1 \times r^{b-1} = -1 \Rightarrow r^{b-1} = 1 \Rightarrow b-1 = 0 \Rightarrow b = 1$
 $\Rightarrow f(m) = 1 + -1 \times r^{-1+m} \Rightarrow f(-1) = 1 - 1 \times r^{-2} = 1 - \frac{1}{r^2} = \frac{r^2-1}{r^2}$

$m=0, y=r \rightarrow r = c + \log_a^b \Rightarrow r-c = \log_a^b \Rightarrow b = \frac{r-c}{c}$
 $m=r, y=0 \rightarrow 0 = c + \log_a^{r+c} \Rightarrow -c = \log_a^{r+c} \Rightarrow 0^{-c} = r^{r+c}$
 $b = \frac{r-c}{c} \Rightarrow 0^{-c} = r^{r+c} \Rightarrow 0^{-c} = r^{r+c}$
 $\Rightarrow 0^{-c}(1-r) = r^{r+c} \Rightarrow -r \times 0^{-c} = r^{r+c} \Rightarrow a = -1, 0^{-c} = r^{r+c}$

$f(m) = 1 - y_f$ $\frac{(m^2-r)-m}{\Rightarrow} |m^2-r|-m > 0$
 $\frac{-r}{m^2-m-r} \quad \frac{+r}{m^2-m-r}$
 $\frac{m^2-m-r}{m^2-m-r} \quad \frac{-m^2-m+r}{-m^2-m+r} \quad \frac{m^2-m-r}{m^2-m-r} > 0$
 $\frac{m^2-m-r}{m^2-m-r} \quad \frac{-m^2-m+r}{-m^2-m+r} \quad \frac{m^2-m-r}{m^2-m-r} > 0$
 $\frac{m^2-m-r}{m^2-m-r} \quad \frac{-m^2-m+r}{-m^2-m+r} \quad \frac{m^2-m-r}{m^2-m-r} > 0$
 $\frac{m^2-m-r}{m^2-m-r} \quad \frac{-m^2-m+r}{-m^2-m+r} \quad \frac{m^2-m-r}{m^2-m-r} > 0$
 $\frac{m^2-m-r}{m^2-m-r} \quad \frac{-m^2-m+r}{-m^2-m+r} \quad \frac{m^2-m-r}{m^2-m-r} > 0$

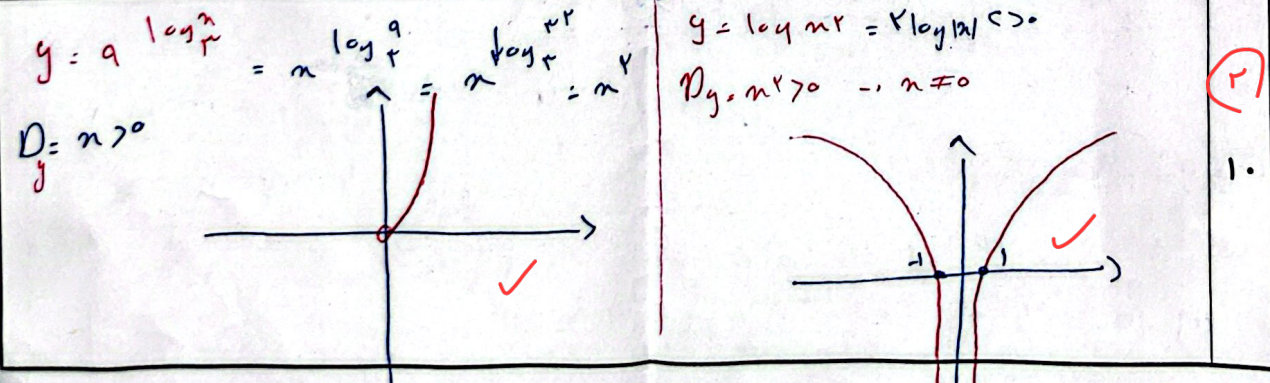
$f(m) = r \times r^{b-a-n}$ $g(m) = -m^2 - r m + a$
 $f(1) = g(1) \Rightarrow r + r^{b-a} = -1 - r + a$
 $r^{b-a} = -1 - r + a + 1 - r = a - 2r$
 $r^{b-a} = a - 2r$
 $f^{-1}(1) = 1 \Rightarrow f(1) = 1 \Rightarrow f(-1) = r + r^{b+a} = 1$
 $r^{b+a} = 1 - r$
 $r^{b-a} = a - 2r$
 $r^{b+a} = 1 - r$
 $r^{b-a} = a - 2r$
 $r^{b+a} = 1 - r$

$f(m) = -r \left(\frac{1}{r}\right)^{A \cdot m \cdot B}$ $f(r) = -r \left(\frac{1}{r}\right)^{r \cdot A \cdot B} = r$ $r^{-r \cdot A - B} = r$
 $g(y) = m \cdot r - m$ $f(m) = -r \left(\frac{1}{r}\right)^{r \cdot m}$ $f(r) = -r + A = 9$ ✓
 $f(1) = g(1) \rightarrow g(r) = r - r = 0$ $f(1) = 0$ $f(r) = -r + \frac{1}{r} = 0$ $r^{-A-B} = r$
 $f(r) = g(r) \rightarrow g(r) = r - r = r$ $f(r) = r$ $\begin{cases} -r \cdot A - B = r \\ -A - B = 1 \end{cases}$ $\begin{cases} A = -1 \\ B = 0 \end{cases}$ ✓

$A = A_0 \cdot \alpha \cdot \frac{1}{m}$
 $\frac{1}{4} A_0 = A_0 \cdot \alpha \cdot \frac{1}{4}$
 $\frac{1}{4} = \frac{1}{4} \cdot \frac{1}{\alpha}$
 $\log \frac{1}{4} = \frac{1}{4} \cdot \frac{1}{\alpha}$ $\log \frac{1}{4} = \frac{1}{4} \cdot \frac{1}{\alpha}$ $\Rightarrow \frac{1}{\alpha} = \frac{1}{4} \Rightarrow \alpha = 4$ ✓
 $\log \frac{1}{4} = \frac{1}{4} \cdot \frac{1}{\alpha}$ $\Rightarrow \frac{1}{\alpha} = \frac{1}{4} \Rightarrow \alpha = 4$ ✓

$A = A_0 \cdot \alpha \cdot \frac{1}{m}$
 $\frac{1}{V} A_0 = A_0 \cdot \alpha \cdot \frac{1}{V}$
 $\frac{1}{V} = \frac{1}{V} \cdot \frac{1}{\alpha}$
 $\log \frac{1}{V} = \frac{1}{V} \cdot \frac{1}{\alpha}$ $\Rightarrow \frac{1}{\alpha} = \frac{1}{V} \Rightarrow \alpha = V$ ✓

$A = A_0 \cdot \alpha \cdot \frac{1}{m}$
 $\frac{1}{F} A_0 = A_0 \cdot \alpha \cdot \frac{1}{F}$
 $\frac{1}{F} = \frac{1}{F} \cdot \frac{1}{\alpha}$
 $\log \frac{1}{F} = \frac{1}{F} \cdot \frac{1}{\alpha}$ $\Rightarrow \frac{1}{\alpha} = \frac{1}{F} \Rightarrow \alpha = F$ ✓



2

2

2

2

2

1.