

if $\alpha = 1 \rightarrow 1 = r^0 \rightarrow A+B=0 \rightarrow A=1$ (1)
 if $\alpha = r \rightarrow r^0 = r^1 \rightarrow rA+B=r \rightarrow B=-1$ (5)
 $f(x) = r^{x-1} \rightarrow y = r^{-1} = \frac{1}{r}$ (5)

$r^{\alpha} + 1 = \Lambda \times r^{\alpha} \rightarrow t^r - \Lambda t + 1 = 0$ (2)
 $t = r^{\alpha} \rightarrow r^{\alpha} = r \rightarrow \alpha = \log_r r = 1$ (5)
 $r^{\alpha} = \omega \rightarrow \alpha = \log_r \omega$ (5)

$\log_r \omega + \log_r r = \log_r \omega r$

$(\log_r r)^r + (\log_r r + \log_r r - \log_r r)(\log_r r + \log_r r) = (\log_r r)^r + r - (\log_r r)^r = r$ (5) (3)

$(a+b) \log_r a = a \rightarrow \frac{a+b}{a} = \frac{1}{\log_r a} \rightarrow \frac{b}{a} = \frac{1}{\log_r a} - 1 \rightarrow \frac{b}{a} = \log_r a - \log_r a = 0$ (5)
 $(\sqrt{r})^{\log_r \omega} \rightarrow \omega = \frac{1}{r} = \sqrt{\omega}$ (5)

$\log_{10}^{(1-\alpha)^r} + \log_{10}^{(1-\alpha)^r} = \log_{10}^{10^{\omega}} \rightarrow (1-\alpha)^{\omega} = 10^{\omega} \rightarrow 1-\alpha = 10 \rightarrow \alpha = -9$ (5)
 $\log_r^9 = r$

$(\alpha^r + r\alpha + r)(\alpha - r) = 1 \rightarrow \alpha^r - 1 = 1 \rightarrow \alpha = r^{\frac{r}{r}} = r$ (5) (5)

$\log_r (r-\alpha) + \log_r (r-\alpha)^r = \log_r (10^r) \rightarrow r-\alpha = 10 \rightarrow \alpha = -1$ (5) (4)

$\alpha^r - r\alpha - r = 0 \rightarrow \alpha = \pm \sqrt{r^2 + r} = \sqrt{r^2 + r}$ (5) (5) $\log_r \frac{4}{r} = \frac{1}{r}$

$\frac{\log_r \Lambda}{\log_r \omega} = \frac{r \log_r r}{r \log_r r + \log_r r} = \frac{\omega}{v}$ (5) (1)

$\frac{\frac{1}{r} \log_r^4}{\log_r^r} = \frac{\frac{1}{r} (\log_r^r + \log_r^r)}{\log_r^r + \log_r^r} = \frac{v}{18}$ (5) (5)
 $\log_r^4 = \frac{1}{\log_r^r} = \frac{1}{\log_r^r + \log_r^r} = \frac{1}{\log_r^r + 1} = \frac{1}{18}$

