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1.  $f(x) = r^{Ax+B}$   
 $y = r^x$   
 $f(x) = r^{x-1}$

$n=3 \rightarrow r^3 = r^{A+B}$   
 $n=1 \rightarrow r^1 = r^{A+B}$   
 $n=0 \rightarrow f(x) = \frac{1}{r}$

$\begin{cases} 3A+B=3 \\ A+B=1 \end{cases} \rightarrow \begin{matrix} A=1 \\ B=-1 \end{matrix}$

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2.  $\log_r r^{n+\Delta} = n+\Delta$   
 $r^{n+\Delta} = r^{n+\Delta} \rightarrow r^n - r^{n+\Delta} + \Delta \rightarrow t - \Delta t + \Delta$   
 $r^{n+\Delta} > -14 \rightarrow r^n > -14$   
 $r^x = t$   
 $(t-\Delta)(t-\Delta)$   
 $\begin{cases} t-r=r^n \\ t-\Delta=r^n \end{cases}$

$u = \log_r^A, \log_r^V \rightarrow u+u_r = \log_r^{\Delta}$

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3.  $(\log_r^u)^r + \log_r^{r \times v} \log_r^{r \times r^v} \rightarrow (\log_r^u)^r + (\log_r^{r \times v} + \log_r^{r \times v})(\log_r^{r \times r^v} + \log_r^{r \times r^v})$   
 $\rightarrow 2(1 + \log_r^u)(r + \log_r^u) + (\log_r^u)^r = \xi$

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4.  $\log_r^{(n^r-rx+1)} + r \log_r(1-n) = \Delta \rightarrow -(n-1)^r (n-1)^r = 1 \cdot \Delta \rightarrow -(n-1)^\Delta = 1 \cdot \Delta$   
 $\log_r^{-n} = r$   
 $n-1 = -1$   
 $n = -4$

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5.  $\log_r^{n^r+rn+\xi} + \log_r^{n-r} = \log_r^{\Delta} \rightarrow (n^r+rn+\xi)(n-r) = \Delta$   
 $(n^r-n) = \Delta \rightarrow n^r = 14$   
 $n = r^{\frac{\xi}{r}}$

$\log_r \frac{r^{\frac{\xi}{r}}}{r^{\frac{1}{r}}} \rightarrow \text{⊖}$

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4.  $\log_r^n - \log_r \frac{1}{(n-r)^r} = r \rightarrow -(n-r)^r = 1 \dots \rightarrow -(n-r)^r = 1 \cdot r \rightarrow n-r = -r$   
 $n = -r$

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$\log_r^{-n} = r$   
 $(\frac{1}{r})^r \rightarrow$

$$v. \quad \mu^{n^r-r} = \mu^{\epsilon n} \quad \rightsquigarrow \quad n^r - \epsilon n - r = 0 \quad \rightarrow \quad \frac{\epsilon \pm \sqrt{14+11}}{2} = r \pm \sqrt{4}$$

$$\log \frac{r+\sqrt{4}-r}{4} = \frac{1}{r} \quad \text{⑤}$$

$$a. \quad \log \frac{r}{\mu} = \frac{\Delta}{\Lambda}$$

$$\log \frac{\Lambda}{1\Lambda} = \frac{\Delta}{\sqrt{v}}$$

$$\frac{\cancel{r} \log \frac{r}{\mu} \rightarrow \frac{1\Delta}{\Lambda}}{\cancel{r} \log \frac{r}{\mu} + \log \frac{r}{\mu} \rightarrow \frac{\Delta}{\Lambda}} = \frac{\log \frac{\Lambda}{\mu}}{\log \frac{1\Lambda}{\mu}} = \log \frac{\Lambda}{1\Lambda} = \frac{1\Delta}{r1} = \frac{\Delta}{\sqrt{v}} \quad \text{②}$$

$$a. \quad \log \frac{r}{\epsilon} = \frac{1}{\Lambda}$$

$$\log \frac{r}{1r} = \frac{1r}{1\Lambda}$$

$$\frac{\log \frac{r}{\epsilon} + \log \frac{r}{\epsilon}}{\log \frac{r}{\epsilon} + \log \frac{r}{\epsilon}} = \frac{\frac{1}{\Lambda} + \frac{1}{r}}{\frac{1}{\Lambda} + 1} = \frac{1r}{1\Lambda} \quad \text{⑤}$$

$$1. \quad a(a \log r) n^r + a n + b \log r = \cdot \xrightarrow{n=1} a \log r - a + b \log r \rightarrow (\log r)(a+b) = a$$

$$\log r = \frac{a}{a+b} \rightarrow \log \frac{1}{r} = \frac{a+b}{a} \rightarrow 1 + \frac{b}{a} \quad \text{⑤}$$

$$\rightarrow \frac{b}{a} = \log \frac{1}{r} - 1 = \log \frac{a}{r}$$

$$\sqrt{r}^{\log \frac{a}{r}} = a^{\frac{1}{r} \log \frac{a}{r}} = \sqrt{a}$$