

$$f(x) = r^{Ax+B}$$

$$y = a^x$$

$$\begin{matrix} A & | & r \\ 1 & | & q \end{matrix} \rightarrow \begin{matrix} 1 = r^{A+B} = r^0 \rightarrow A+B=0 \\ q = r^{rA+B} \end{matrix} \rightarrow \begin{matrix} rA+B=r \\ rA+B=1 \end{matrix} \rightarrow \begin{matrix} rA+B=r \\ rA+B=1 \end{matrix} \rightarrow \begin{matrix} rA+B=r \\ rA+B=1 \end{matrix}$$

$$\log_r (r^q + 1) = a + r$$

$$r = r + 1a \rightarrow r - r + 1a = 0$$

$$t^r - 1t + 1a = 0 \quad (t-r)(t-d) = 0$$

$$\rightarrow r = r, r^q = d$$

$$\log_r r = a \quad \log_r d = a$$

$$\log_r d + \log_r r = \log_r dr$$

$$\left(\log_r r + \log_r r \right) \left(r \log_r r + r \log_r r \right)$$

$$\log_r r - \log_r r = \log_r r$$

$$\left(\log_r r \right) + \log_r r \log_r r$$

$$t + (r - rt + t) (rt + r - rt) \rightarrow t + (t+r)(t+r)$$

$$t^r + (t+r) = \boxed{t}$$

$$\log (a^r - r + 1)$$

$$+ r \log (1-a)$$

$$\log_r (1-a)$$

$$(a^r - r + 1)(1-a)^r = 1$$

$$(a-1)^r = (1-a)^r (1-a)^r = 1 \Rightarrow (1-a)^2 = 1$$

$$1-a = 1 \rightarrow a = -9$$

$$\log_r (1-a) = \log_r r^r = r$$

$$\log_r (a^r + r + 1) + \log_r (1-a) = r$$

$$(a^r + r + 1)(1-a) = 1$$

$$a^r - 1 = 1 \rightarrow a^r = 2 \rightarrow a = \sqrt[r]{2}$$

$$\log_r \sqrt[r]{2}$$

$$\log_r 2 = r$$

$$\log_r (r-a) - \log_r \frac{1}{(a-r)^r} = r \rightarrow \log_r \frac{(r-a)^r}{(a-r)^r} = \log_r 1 = 0 \rightarrow r-a = 1 \rightarrow a = -1$$

$$\log_r (1-a) \rightarrow \log_r r^r = r$$

$$r^{n-r} = 11 = r^{10}$$

$$\log_{11}^{n-r} \rightarrow \log_{11}^{r+\sqrt{4}-r} = \log_{11}^{\sqrt{4}} \left(\frac{1}{r}\right)$$

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$$n^r - 11n - r = 0$$

$$r = \frac{r + \sqrt{14 + 11r^2}}{r} = \frac{11 + \sqrt{4}}{r} = \frac{r + \sqrt{4}}{11}$$

$$\log_{11}^r = \frac{a}{n} \quad \log_{11}^n \rightarrow \frac{r \log_{11}^r}{\log_{11}^n} = \frac{r \frac{a}{n}}{\log_{11}^r + \log_{11}^r} = \frac{r \frac{a}{n}}{r + \frac{a}{n}} = \frac{\frac{1a}{n}}{\frac{r1}{n}} = \frac{b}{r1} = \frac{a}{r}$$

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$$\log_{11}^r = 0,1n \quad \log_{11}^4 = ? = \frac{\log_{11}^4}{\log_{11}^r} = \frac{\log_{11}^r + \log_{11}^r}{\log_{11}^r + \log_{11}^r} = \frac{\frac{1}{11} + 0,1n}{0,1n + 1} = \frac{1,1}{1,1n} = \frac{1,1}{n}$$

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$$(a \log^r)^n + an + b \log^r = 0 \quad n = -1 \quad (\sqrt{r})^{\frac{b}{a}} = r^{\frac{1}{a}} = a^{\frac{1}{r}} = \sqrt{a}$$

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$$a \log^r - a + b \log^r = 0 \rightarrow \log^r + \log^r - a = 0 = \log^{r \times r} = a$$

$a+b = 1$
 $r = 1$
 $r = \frac{b}{a} a^{\frac{1}{a}} = r^{\frac{b}{a}} = a$