

$$\log(r-n) - \log(r-n)^{-r} = r$$

$$r \log(r-n) = r \rightarrow \log(r-n) = 1 \rightarrow r-n=10 \quad n=-1$$

$$\log \frac{(-n)}{\sqrt{r}} \rightarrow \log \frac{\wedge}{\sqrt{r}} = \frac{r}{\frac{1}{r}} \log \frac{r}{r} = 4$$

(4)

$$r^{n-r} = \wedge^{\frac{r}{n}} \rightarrow n^r - r = r n \rightarrow n^r - r n - r = 0$$

$$(n-r)^r = 4 = 0$$

$$(n-r)^r = 4$$

$$\rightarrow n-r = \sqrt{4} \rightarrow n = \sqrt{4} + r$$

$$\rightarrow n-r = -\sqrt{4}$$

$$\frac{n-r-\sqrt{4}}{558}$$

(5)

$$\log \frac{n-r}{4} \rightarrow \log \frac{\sqrt{4+r-r}}{4} = \frac{1}{r} \log \frac{2}{4} = \frac{1}{r}$$

$$\star \log \frac{r}{\wedge} = \frac{0}{\wedge} \rightarrow \log \frac{\wedge}{r} = \frac{\wedge}{\wedge}$$

$$\log \frac{\wedge}{1\wedge} = \frac{1}{\log \frac{1\wedge}{\wedge}}$$

$$\log \frac{1\wedge}{\wedge} = \log \frac{r}{r^{\wedge}}$$

$$\rightarrow \log \frac{r}{r^{\wedge}} + \log \frac{\wedge}{r^{\wedge}} = \frac{1}{r} \log \frac{r}{r} + \frac{r}{r} \log \frac{r}{r}$$

$$\frac{1}{r} + \frac{r}{r} \times \frac{\wedge}{\wedge} = \frac{r}{10}$$

(6)

$$\log \frac{\wedge}{1\wedge} = \frac{1}{\frac{r}{10}} = \frac{10}{r} = \frac{0}{r}$$

$$\log \frac{4}{1r} = \frac{\log \frac{4}{r}}{\log \frac{1r}{r}} = \frac{\log \frac{r}{r} + \log \frac{4}{r}}{\log \frac{r}{r} + \log \frac{r}{r}} = \frac{0 + 0 + \wedge}{1 + 0 + \wedge} = \frac{1, \wedge}{1, \wedge} = \frac{1, \wedge}{1, \wedge}$$

(7)

$$n=-1 \rightarrow a \log r - a + b \log r = 0 \quad \frac{\log r = t}{at - a + bt = 0} \rightarrow t - 1 + \frac{b}{a} t = 0$$

$$t(1 + \frac{b}{a}) = 1 \rightarrow t = \frac{1}{1 + \frac{b}{a}} \rightarrow \log \frac{r}{10} = \frac{1}{1 + \frac{b}{a}} \rightarrow \log \frac{10}{r} = 1 + \frac{b}{a}$$

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

$$\frac{b}{a} = \log \frac{a}{r}$$

(8)

(تالیف ۱۴)

(فاصله شکرانی)

بزرگم دژ B

$$n=1 \rightarrow y = x^r, (b1) \rightarrow r^{A+B} = 1$$

$$n=2 \rightarrow y = x^r, (2,4) \rightarrow r^{2A+B} = 4$$

$$\begin{cases} A+B=0 \\ 2A+B=2 \end{cases}$$

$$\underline{A=1, B=-1}$$

$$f(x) = r^{n-1}$$

$$y \text{ نقطه } \rightarrow r^{0-1} = y \quad \boxed{y = \frac{1}{r}}$$

1

$$\log_r^{r^x+10} = x+2$$

$$r^x + 10 = r^{x+2} \rightarrow r^{2x} - r^{x+2} + 10 = 0 \quad (r^x)^2 - 1 \times r^x + 10 = 0 \rightarrow t^2 - 1t + 10 = 0$$

$$(t-3)(t-0) = 0$$

$$t=3 \rightarrow r^x = 3 \rightarrow \boxed{x = \log_r 3}$$

$$t=0 \rightarrow r^x = 0 \rightarrow \boxed{x = \log_r 0}$$

$$t = 3, 0$$

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$$(\log_{r_1}^r)^r + (\log_{r_1}^v + \log_{r_1}^{r_1}) (\log_{r_1}^r + r \log_{r_1}^{r_1}) \rightarrow (\log_{r_1}^r)^r + (r - \log_{r_1}^v)(r + \log_{r_1}^{r_1})$$

$$\log_{r_1}^{\frac{r_1}{r}} = \log_{r_1}^{r_1} - \log_{r_1}^r = (\log_{r_1}^r)^r - (\log_{r_1}^{r_1})^r + r = r$$

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$$\log^{(1-n)^r} + \log^{(1-n)^w} = 2 \rightarrow (1-n)^2 = 10^2 \quad 1-n=10 \quad n=-9$$

$$\log_{10}^{-n} \rightarrow \log_{10}^9 = 2$$

4

$$\log_r^{(n^r+r^r+r)} = r \quad \log_r^{n^r-1} = r \quad n^r-1=1 \quad n=\sqrt[r]{2}$$

$$\log_{\frac{r}{\sqrt[r]{r}}}^n \rightarrow \log_{\frac{r}{\sqrt[r]{r}}}^{\frac{r}{\sqrt[r]{r}}} = \log_r^{\frac{r}{\sqrt[r]{r}}} \rightarrow \frac{\frac{r}{\sqrt[r]{r}}}{\frac{1}{\sqrt[r]{r}}} \log_r^r = r$$

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