

$$\textcircled{1} \quad \left. \begin{array}{l} (1, 9) \text{ و } (3, 9) \rightarrow A+B=0 \\ 3A+B=2 \end{array} \right\} \rightarrow \begin{array}{l} \boxed{A=1} \\ \boxed{B=-1} \end{array}$$

$$r^{x-1} \rightarrow r^{-1} = \boxed{\frac{1}{r}}$$

$$\textcircled{2} \quad r^x + 1 = r^{x+3} \rightarrow t - \lambda t + \lambda = 0 \rightarrow (t-3)(t-1) = 0$$

$$r^{x_1} = 3 \quad | \quad r^{x_2} = 1 \rightarrow r^{x_1+x_2} = 1 \rightarrow x_1+x_2 = \log_r 1 \leftarrow$$

$$\textcircled{3} \quad \log_r r^t = t \rightarrow t^2 + \frac{(1+1-t)(r+t)}{r-t} = \boxed{r}$$

$$r - t^2$$

$$\textcircled{4} \quad (n-1)^n \times (1-n)^n = 10^a \rightarrow (1-n)^a = 10^a \rightarrow \boxed{n=-9}$$

$$\textcircled{5} \quad (n^2 + 2n + 1)(n-2) = 1 \rightarrow n^2 - 1 = 1 \rightarrow n^2 = 4 \rightarrow n = 2\sqrt{2}$$

$$\log \frac{\sqrt[3]{14}}{\sqrt{r}} = \boxed{r}$$

$$\textcircled{9} \quad \frac{r-n}{r-n} (n-2)^n = 10^m \rightarrow (r-n)^m = 10^m \rightarrow \boxed{n=-1}$$

$$\textcircled{v} \quad n^r - r = \epsilon n \rightarrow n^r - \epsilon n - r = 0 \rightarrow (n-r)^r - q = 0 \rightarrow (n-r)^r = q$$

$$\log_{\log}^{n-r} q = \boxed{\frac{1}{r}}$$

$$\textcircled{\wedge} \quad \frac{\log_{\log}^{\wedge}}{\log_{\log}^{\wedge}} = \frac{r \log_{\log}^r}{r + \log_{\log}^r} = \frac{\frac{1 \wedge}{\wedge}}{\frac{r 1}{\wedge}} = \boxed{\frac{\wedge}{r}}$$

$$\textcircled{9} \quad \frac{\log_{\log}^9}{\log_{\log}^r} = \frac{\frac{a/r}{\log_{\log}^r} + \frac{1}{r}}{1 + \frac{a/\wedge}{\log_{\log}^r}} = \frac{1/r}{1/\wedge} = \boxed{\frac{1/r}{1/\wedge}}$$

$$\textcircled{b} \quad a \log_{\log}^r + b \log_{\log}^r = a \rightarrow \log_{\log}^r(a+b) = a \rightarrow \log_{\log}^r = \frac{a}{a+b}$$

$$\log_{\log}^1 = 1 + \frac{b}{a} \rightarrow \log_{\log}^a = \frac{b}{a} \rightarrow (\sqrt{r})^{\log_{\log}^a} \rightarrow a^{\frac{1}{r}} = \boxed{\sqrt{a}}$$