

نام و نام خانوادگی: ... شماره: ... کلاس: ...

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

$$f(1) = 1, f(r) = 9 \rightarrow r^{A+B} = 1, r^{rA+B} = 9 \rightarrow$$

$$r^{rA} = 9 \rightarrow A=1, r^{1+B} = 1 \rightarrow B=-1 \rightarrow f(x) = r^{x-1}$$

$$x=0 \rightarrow r^{-1} = 1/r \rightarrow \left(\frac{1}{r}\right)$$

$$\log_r^{r^m+1\Delta} = x+r \rightarrow r^m+1\Delta = 1 \times r^m \rightarrow r^m = t$$

$$t^r - 1t + 1\Delta = 0 \rightarrow (t-r)(t-\Delta) = 0 \quad r^m = r \quad r^m = \Delta$$

$$x_1 = \log_r^r \quad x_2 = \log_r^\Delta \rightarrow x_1 + x_2 = \log_r^{1\Delta}$$

$$(\log_r^r)^r + (1 + \log_r^v) (r + \log_r^r) =$$

$$r + r \log_r^v + \log_r^r + \log_r^r \log_r^v$$

$$= (\log_r^r)^r + \log_r^v \log_r^r + \log_r^r + r \log_r^v \log_r^r + \log_r^r \log_r^v + \log_r^r \log_r^v$$

$$\log_r^{(1-n)^r} + r \log_r^{(1-n)} = \Delta \rightarrow \Delta \log_r^{1-n} = \Delta \rightarrow 1-n = 1 \rightarrow n = -9$$

$$\log_r^{-n} = \log_r^9 = r$$

$$\log_r^{(mr+rn+E)(n-r)} = r \rightarrow x^r - 1 = 1 \rightarrow x = \sqrt[r]{14}$$

$$\log_r \frac{x}{\sqrt[r]{r}} = \log_r \frac{\sqrt[r]{14}}{\sqrt[r]{r}} = \log_r^{14} = (r)$$

$$\log^{(r-m)} - \log \frac{1}{(r-m)^r} = r \rightsquigarrow \log \frac{1}{(r-m)^r} = r \rightarrow r \log^{(r-m)} = r$$

$$\log^{r-m} = 1 \rightarrow r-m+1 = m+1-n \quad \log \frac{-n}{\sqrt{r}} = \log \sqrt{r}$$

$$\rightsquigarrow \log \sqrt{r} = 1$$

$$r^{m^r-r} = 1 \rightarrow r^{m^r-r} = r^m \rightarrow m^r-r = m \rightarrow m^r - m - r = 0$$

$$(m-r)^r - 4 = 0 \rightarrow m-r = \pm \sqrt{4} \rightarrow m-r > 0 \rightarrow m-r = 2 + \sqrt{4}$$

$$\log_{4^{m+r}} \rightarrow \log_{4^{\sqrt{4}}} = \frac{1}{r}$$

$$\log_r^r = \frac{a}{\Lambda} \quad \log_{\Lambda}^{\Lambda} = ? \quad \left\{ \log_r^r = \frac{a}{\Lambda} \rightarrow \log_r^r = \frac{\Lambda}{a} \right.$$

$$\log_{\Lambda}^{\Lambda} = \frac{1}{\log_{\Lambda}^{\Lambda}} \quad \log_{\Lambda}^{\Lambda} = \log_{\Lambda}^r + \log_{\Lambda}^a \rightarrow \frac{1}{a} \log_r^r + \frac{r}{a} \log_r^r$$

$$\rightarrow \frac{1}{r} + \frac{r}{r} \times \frac{\Lambda}{a} = \frac{1}{r} + \frac{r\Lambda}{ra} = \frac{r\Lambda}{ra} = \frac{\Lambda}{a} \rightsquigarrow \log_{\Lambda}^{\Lambda} = \frac{a}{\Lambda}$$

$$\log_{\frac{4}{1r}} = \frac{\log_{\frac{4}{r}}}{\log_{\frac{1r}{r}}} = \frac{\log_r^4 + \log_r^r}{\log_r^{\frac{4}{r}} + \log_r^{\frac{1r}{r}}} = \frac{1,4 + 1}{1,4 + r} = \frac{r,4}{r,4} = \frac{1r}{1\Lambda}$$

$$(a \log^r) x^r + a x + b \log^r = 0$$

$$\frac{1}{x} \rightarrow a \log^r + b \log^r = a \rightarrow \log_{\frac{1}{x}}^{r^a+r^b} = a \rightarrow x^a + x^b = 10^a$$

$$\rightarrow x^b = 10^a \rightarrow \log_{\frac{1}{x}}^{10^a} = b \rightarrow \log_{\frac{1}{x}}^{10^a} = \frac{b}{a} \rightarrow (\sqrt{r})^{\log_{\frac{1}{x}}^{10^a}} = \sqrt{10^a}$$