

$$\begin{aligned}
 x^1 &\rightarrow y=0 \Rightarrow \left(\frac{1}{r}\right)^{A+B} \leq r \rightarrow A+B=-1 \\
 x^2 &\rightarrow y=r \Rightarrow \left(\frac{1}{r}\right)^{A+B} \leq r \rightarrow A+B=-1 \\
 &\left. \begin{aligned} A &= -1, B = 0 \end{aligned} \right\}
 \end{aligned}$$

$$f(r) = -r + \left(\frac{1}{r}\right)^{-r} = -r + \Lambda = 4$$

$$\begin{aligned}
 \Lambda^a &= \frac{1}{q} \rightarrow \log \frac{1}{q} = a \\
 &\rightarrow \frac{\log \frac{1}{q}}{\log \frac{1}{q}} = \frac{\log \frac{1}{q} - \log \frac{1}{q}}{\log \frac{1}{q} - \log \frac{1}{q}} \\
 &= \frac{0 - \log \frac{1}{q}}{\log \frac{1}{q}} = -\left(\frac{1}{r} + \frac{1}{1/r}\right) = r \times \frac{1}{r} = 1
 \end{aligned}$$

$$\begin{aligned}
 \frac{V}{\Lambda} &\leq \frac{1}{V} \rightarrow \log \frac{1}{V} \leq a \rightarrow \frac{\log \frac{1}{V}}{\log \frac{1}{V}} = \frac{\log \frac{1}{V} - \log \frac{1}{V}}{\log \frac{1}{V} - \log \frac{1}{V}} \\
 &= \frac{0 - \log \frac{1}{V}}{\log \frac{1}{V}} = \frac{0 - \log \frac{1}{V}}{\log \frac{1}{V}} = 1
 \end{aligned}$$

$$\begin{aligned}
 \frac{qY}{100} &\leq \frac{1}{r} \rightarrow \log \frac{qY}{100} \leq a \rightarrow \frac{\log \frac{qY}{100}}{\log \frac{qY}{100}} = \frac{\log \frac{qY}{100} - \log \frac{qY}{100}}{\log \frac{qY}{100} - \log \frac{qY}{100}} \\
 &= \frac{0 - \log \frac{qY}{100}}{\log \frac{qY}{100}} = \frac{-\log \frac{qY}{100}}{\log \frac{qY}{100}} = -1
 \end{aligned}$$

الف) $q^{10^r} = q^{10^q} \leq q^r$

$D = (0, +\infty)$

$y = \log_{10}^x$

دسته اوله بیلگه ییجه
منبغه صاب نری!

$D = \mathbb{R} - \{0\}$

$$n = r, r \rightarrow C + \lg_{\omega}^{r, r} a + b = 0 \quad (1)$$

-3

$$n = 0 \rightarrow C + \lg_{\omega}^b = r \quad (2)$$

$$\frac{(2) - (1)}{\omega} \rightarrow \lg_{\omega}^{r, r} \frac{b}{a+b} = r \rightarrow \frac{b}{r, r a + b} = r \Delta \rightarrow \frac{a}{b} = \frac{-r}{\omega}$$

حجم باقیمانده = $\frac{m_0}{4} = m_0 \left(\frac{1}{q}\right)^t \rightarrow \left(\frac{1}{q}\right)^t = \frac{1}{4}$

-4

$$\xrightarrow{\lg} t \lg \frac{1}{q} = \lg \frac{1}{4} \rightarrow t (r \lg r - r \lg r) = -(\lg r + \lg r)$$

$$t = \frac{-(\lg r + \lg r)}{r \lg r - r \lg r} \xrightarrow{\div \lg r} t = \frac{-(\lg_r r + 1)}{r \lg_r r - r} = \frac{-(\frac{r}{r} + 1)}{r(\frac{r}{r}) - r} = \frac{-2}{r - r} = \frac{19}{r}$$

$$\frac{\lg_{\omega}^a}{\lg_{\omega}^r} = \frac{\lg r}{\lg r} = \frac{1, r}{r, r} = \frac{r}{r}$$

$r \Delta = \min = 90 \times \text{second}$