

معنی الیوم
معنی نیست

$b+c = \frac{r}{r} = 1$ $y_2 = \frac{1}{c} (ax-b)$ $(a+c)b = ?$

$\begin{cases} x=0 \\ y=r \end{cases} \Rightarrow x = 1 - \frac{b}{c} \rightarrow \frac{1}{c} = -b \rightarrow \frac{1}{c} = -b \rightarrow \frac{1}{c} + b = -1 \rightarrow \frac{1}{c} + C = -\frac{r}{r} \rightarrow -\frac{r}{r} + rC = -\frac{r}{r}$

$\begin{cases} x=r \\ y=0 \end{cases} \Rightarrow \frac{r}{r} = 1 - \frac{b}{c} \rightarrow \frac{r}{r} = \frac{r}{r} - \frac{b}{c} \rightarrow \frac{r}{r} - \frac{r}{r} = -\frac{b}{c} \rightarrow 0 = -\frac{b}{c} \rightarrow b = 0$

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$f(x) = 1 + Cx^r \Rightarrow f(1) = 1 + (-1) \times r^{\frac{(-1)+1}{r+1}} = 1 - \frac{1}{9} = \frac{8}{9} \Rightarrow f(-1) = ?$

$\begin{cases} x=1 \\ y=0 \end{cases} \Rightarrow 0 = 1 + Cx^r \Rightarrow \frac{C}{a} = -1 \Rightarrow C = -a$

$\begin{cases} x=0 \\ y=r \end{cases} \Rightarrow \frac{r}{r} = 1 + Cx^r \Rightarrow Cx^r = -1 \times r^{-1} \Rightarrow C = -1$

$y = c + \frac{1}{a} (ax+b)$ $? = \frac{a}{b}$

$\begin{cases} x=0 \\ y=c \end{cases} \Rightarrow c = c + \frac{1}{a} b \rightarrow c - c = \frac{1}{a} b \rightarrow 0 = \frac{1}{a} b \rightarrow b = 0$

$\begin{cases} x=r \\ y=0 \end{cases} \Rightarrow 0 = c + \frac{1}{a} (ra+b) \rightarrow -c = \frac{1}{a} (ra+b) \rightarrow \frac{a}{b} = \frac{r}{ra+b}$

$f(x) = \frac{1}{x} (ln^r - r - n)$ $D = (-\infty, 1) \cup (r, +\infty)$ $1, 8$

$ln^r - r - n > 0 \Rightarrow \ln^r - r - n > 0 \Rightarrow \ln^r - r - n > 0$

$D_f = (r, 1) \cup (r, +\infty)$

$f(x) = r + r^b - ax$ $g(x) = -x^r - rx + a$ $f^{-1}(1) = -1 \rightarrow f(-1) = 1$ 5

$\begin{cases} x=1 \\ y=1 \end{cases} \Rightarrow 1 = r + r^b - a \rightarrow r + r^b - a = 1$

$\begin{cases} x=-1 \\ y=1 \end{cases} \Rightarrow 1 = -(-1)^r - (-1)r + a \rightarrow -1 + r + a = 1 \rightarrow r + a = 2$

$$f(n) = -r + \left(\frac{1}{r}\right)^{An+B} \quad y = n^r \cdot m$$

$$n=1 \Rightarrow -r + \left(\frac{1}{r}\right)^{A+B} = (1)^r - 1 \Rightarrow \left(\frac{1}{r}\right)^{A+B} = r = \left(\frac{1}{r}\right)^{-1} \Rightarrow A+B=1$$

$$n=2 \Rightarrow -r + \left(\frac{1}{r}\right)^{2A+B} = 2 - r \Rightarrow \left(\frac{1}{r}\right)^{2A+B} = 2 = \left(\frac{1}{r}\right)^{-r} \Rightarrow 2A+B = -r$$

$$n=3 \Rightarrow -r + \left(\frac{1}{r}\right)^{3A+B} = 3 - r \Rightarrow \left(\frac{1}{r}\right)^{3A+B} = 3 = \left(\frac{1}{r}\right)^{-r} \Rightarrow 3A+B = -r$$

$$P(t) = A \cdot x \cdot a^{\frac{t}{m}} \Rightarrow P(t) = \frac{1}{4} A = A \cdot x \left(\frac{A}{9}\right)^{\frac{t}{1}} \rightarrow -\frac{1}{4} = \left(\frac{A}{9}\right)^t$$

$$\log_{\frac{A}{9}} \left(\frac{A}{9}\right)^t = \log_{\frac{A}{9}} \frac{1}{4} \Rightarrow t \log_{\frac{A}{9}} \left(\frac{A}{9}\right) = -\log_{\frac{A}{9}} 4 \Rightarrow t = \frac{-\log_{\frac{A}{9}} 4}{\log_{\frac{A}{9}} \left(\frac{A}{9}\right)}$$

$$a = 1 - \frac{1}{9} = \frac{8}{9} \Rightarrow \log_{\frac{8}{9}} = \log_{\frac{9}{8}}^{-1} = -\log_{\frac{9}{8}}$$

$$\log_{\frac{9}{8}} 4 = \log_{\frac{9}{8}} 2^2 = 2 \log_{\frac{9}{8}} 2 = \frac{2}{\log_{\frac{9}{8}} 2} = \frac{2}{\frac{\log 2}{\log \frac{9}{8}}} = \frac{2 \log \frac{9}{8}}{\log 2}$$

$$\log_{\frac{9}{8}} \frac{A}{9} = \log_{\frac{9}{8}} A - \log_{\frac{9}{8}} 9 = \log_{\frac{9}{8}} A - 2 \log_{\frac{9}{8}} 3 = \frac{\log A}{\log \frac{9}{8}} - \frac{2 \log 3}{\log \frac{9}{8}}$$

$$P(t) = A \cdot x \cdot a^{\frac{t}{m}} \rightarrow \frac{1}{V} A = A \cdot x \left(\frac{V}{\Lambda}\right)^{\frac{t}{V}} \rightarrow \frac{1}{V} = \left(\frac{V}{\Lambda}\right)^{\frac{t}{V}} \xrightarrow{\log} \log_{\frac{V}{\Lambda}} \left(\frac{V}{\Lambda}\right)^{\frac{t}{V}} = \log_{\frac{V}{\Lambda}} \frac{1}{V}$$

$$\frac{t}{V} \log_{\frac{V}{\Lambda}} \left(\frac{V}{\Lambda}\right) = -\log_{\frac{V}{\Lambda}} V \rightarrow \frac{t}{V} (\log_{\frac{V}{\Lambda}} V - \log_{\frac{V}{\Lambda}} \Lambda) = -\log_{\frac{V}{\Lambda}} V$$

$$\frac{t}{V} \left(\frac{\log V}{\log \frac{V}{\Lambda}} - \frac{\log \Lambda}{\log \frac{V}{\Lambda}}\right) = -\frac{\log V}{\log \frac{V}{\Lambda}} \rightarrow \frac{t}{V} (\log V - \log \Lambda) = -\log V$$

$$P(t) = A \cdot x \cdot a^{\frac{t}{m}} \rightarrow \frac{1}{r} A = A \cdot x \left(\frac{94}{100}\right)^{\frac{t}{1}} \rightarrow \frac{1}{r} = \left(\frac{94}{100}\right)^t \xrightarrow{\log} \log_{\frac{94}{100}} \left(\frac{94}{100}\right)^t = \log_{\frac{94}{100}} \frac{1}{r}$$

$$t \log_{\frac{94}{100}} \left(\frac{94}{100}\right) = -\log_{\frac{94}{100}} r \Rightarrow t = \frac{-\log_{\frac{94}{100}} r}{\log_{\frac{94}{100}} \left(\frac{94}{100}\right)}$$

$$\frac{t}{100} (\log_{\frac{94}{100}} 100 - \log_{\frac{94}{100}} 94) = -\log_{\frac{94}{100}} r \rightarrow \frac{t}{100} (\log 100 - \log 94) = -\log_{\frac{94}{100}} r$$

الف) $y = a \log_b^n x$

$a \log_b^n x = x^r = x^r$

$x > 0$

$y = x^r$
 $D = (0, +\infty)$

ب) $y = \log_b x^r = r \log_b x$
 $D = (0, +\infty)$