

14, 25

Subject:

Year:

Month:

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تاریخ: 0, 1, 2

تلفین: 0, 1, 2

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1  $(0, r) \rightarrow 1 - \log_c^{-b} = r \rightarrow \log_c^{-b} = 1 \rightarrow -C^{-1} = b \rightarrow b + C = -\frac{r}{C} \rightarrow$  (1)

2  $C - \frac{1}{C} = -\frac{r}{C} \rightarrow C^2 - 1 + \frac{r}{C} = 0 \rightarrow rC^2 + 3C - r = 0 \rightarrow$

3  $C = -r \times \dots, C = \frac{1}{C} \rightarrow b = -r \rightarrow (1 - \frac{r}{C}, 0) \rightarrow \log_c^{-\frac{r}{C} a + r} = -1 \rightarrow$

4  $-\frac{r}{C} a + r = \frac{1}{C} \rightarrow a = 1 \rightarrow (a + C)b = (1 + \frac{1}{C}) \times -r = -r$  (2)

6  $(a, \frac{r}{C}) \rightarrow 1 + C \times r^a = \frac{r}{C} \rightarrow C \times r^a = -\frac{1}{C} \rightarrow r^b = r \rightarrow b = 1$  (3)

7  $(1, 0) \rightarrow 1 + C \times r^{a+b} = 0 \rightarrow C \times r^{a+b} = -1$

8  $f(-1) = 1 + C \times r^{a-1} = 1 + C \times r^a \times \frac{1}{r} = 1 + \frac{1}{C} \times \frac{1}{r} = \frac{1}{C}$  (4)

10  $(0, r) \rightarrow C + \log_a^b = r \rightarrow C = \log_a^b - \log_a^a$  (5)

11  $(r, r, 0) \rightarrow -C = \log_a^{rKa+b} \rightarrow \log_a^{rKa+b} = \log_a \frac{b}{a}$

13  $r, r, a+b = \frac{b}{a} \rightarrow r a b + 4 a a s b \rightarrow 4 a a = -r b \rightarrow$  (6)

14  $\frac{a}{b} = \frac{-r b}{a} = -\frac{r}{a} = -\frac{r}{a}$

16  $(|m^2 - r| - n) > 0 \rightarrow |m^2 - r| > n \rightarrow \sqrt{r} < m < \sqrt{r+n} \rightarrow m^2 - n - r > 0$  (7)

17  $\frac{-1}{+9} - \frac{r}{-9} \rightarrow 0 < m < 1 \cup m > r, -\sqrt{r} < m < \sqrt{r}, -m^2 - n + r > 0 \rightarrow$

19  $\frac{-r}{-9} + \frac{1}{9} \rightarrow \textcircled{1} -r < m < 1 \textcircled{2} \textcircled{3} \rightarrow D_y = n \in (-r, -1)$  (1, 5)

21  $m=1 \rightarrow -1 - r + 1 = r + r \rightarrow r = r \rightarrow b - a = 1 \textcircled{4}$

22  $\rightarrow f^{-1}(1_0) = -1 \rightarrow 1_0 = r + r^{b+a} \rightarrow r^{b+a} = r^r \rightarrow b + a = r \textcircled{5}$

23  $\textcircled{4} + \textcircled{5} \rightarrow r b = r, a = 1 \rightarrow r b - a = r$  (4)

25  $\rightarrow m=1 \rightarrow 0 = -r + (\frac{1}{r})^{A+B} \rightarrow r = (\frac{1}{r})^{A+B} \rightarrow A+B = -1$  (5)

26  $\rightarrow m=r \rightarrow r = -r + (\frac{1}{r})^{A+B} \rightarrow r^r = r^{-A-B} \rightarrow A+B = -r$

27  $A = -1, B = 0 \rightarrow f(r) = -r + 1 = 1$

Arman

سوال ۱۰  
 $m_1 = m_2 \times \left(\frac{1}{9}\right)^h \rightarrow \frac{1}{9} m = m \times \left(\frac{1}{9}\right)^h \rightarrow \frac{1}{9} = \left(\frac{1}{9}\right)^h$  (۷)

$\log_{\omega} \frac{1}{9} = \log_{\omega} \left(\frac{1}{9}\right)^h \rightarrow \log_{\omega} \omega^{-1} = h (\log_{\omega} \omega^{-1} - \log_{\omega} \omega^0) \rightarrow$  (۰.۵)

$-\log_{\omega} \omega = \frac{-1 \times \omega}{1 \times \omega} = \frac{-\omega}{\omega} \rightarrow -\log_{\omega} \omega = \frac{-1 \times \omega}{1 \times \omega} = \frac{-\omega}{\omega} \rightarrow \log_{\omega} \omega = \frac{1 \times \omega}{1 \times \omega} = \frac{\omega}{\omega} = 1$

$\log_{\omega} \omega = 1 \times \frac{\omega}{\omega} = \frac{1 \times \omega}{\omega} \rightarrow \frac{-1 \times \omega}{1 \times \omega} = h (\frac{1 \times \omega}{1 \times \omega} - \frac{1 \times \omega}{1 \times \omega}) \rightarrow h = 19 \rightarrow 19 \text{ min}$

سوال ۱۱  
 $m_1 = m_2 \times \left(\frac{1 \text{ صد}}{1000}\right)^w \rightarrow \frac{1}{1000} = 1000 \times \left(\frac{1}{1000}\right)^w \rightarrow \frac{1}{1000} = \left(\frac{1}{1000}\right)^w$  (۱)

$\log_{\mu} \frac{1}{1000} = \log_{\mu} \left(\frac{1}{1000}\right)^w \rightarrow \frac{-1 \times 1000}{1} = w (\log_{\mu} \frac{1}{1000} - \log_{\mu} 1) \rightarrow \frac{-1000}{1} = w (\frac{-1000}{\mu} - \frac{1000}{1})$  (۰.۵)

$\frac{-1000}{1} = w \left( \frac{1000 - 1000 \mu}{\mu} \right) \rightarrow 1 = \frac{11}{\mu} w \rightarrow w = \frac{\mu}{11} \rightarrow \frac{1000}{11}$

$P_1 = P_2 \times \left(\frac{99}{100}\right)^d \rightarrow P_1 = 100 \times \left(\frac{99}{100}\right)^d$  (۹)

$\frac{100}{\mu} = 100 \times \left(\frac{99}{100}\right)^d \rightarrow \frac{1}{\mu} = \left(\frac{99}{100}\right)^d \rightarrow \log_{\mu} \frac{1}{\mu} = d \log_{\mu} \frac{99}{100}$

$-\frac{1}{\mu} = d (\log_{\mu} 99 - \log_{\mu} 100) = d (\log_{\mu} 99 + \log_{\mu} \frac{1}{100} - \log_{\mu} 1) \rightarrow$

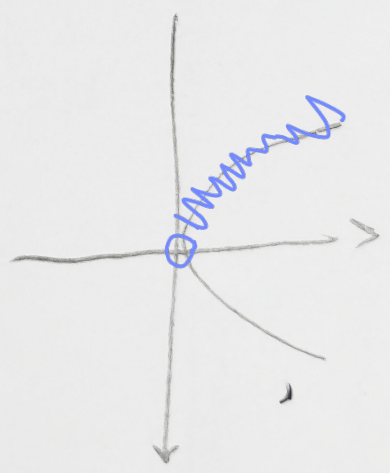
$-\frac{1}{\mu} = d (\log_{\mu} 99) \rightarrow d = \frac{1}{\mu \log_{\mu} 99}$  (۵)

\*  $\log_{\omega} \omega = \log_{\omega} \frac{1}{\omega} = \log_{\omega} \omega^{-1} = -\log_{\omega} \omega = -1$

الف)  $y = a \log_p^{m^1} \rightarrow y = m \log_p^a = m^p$

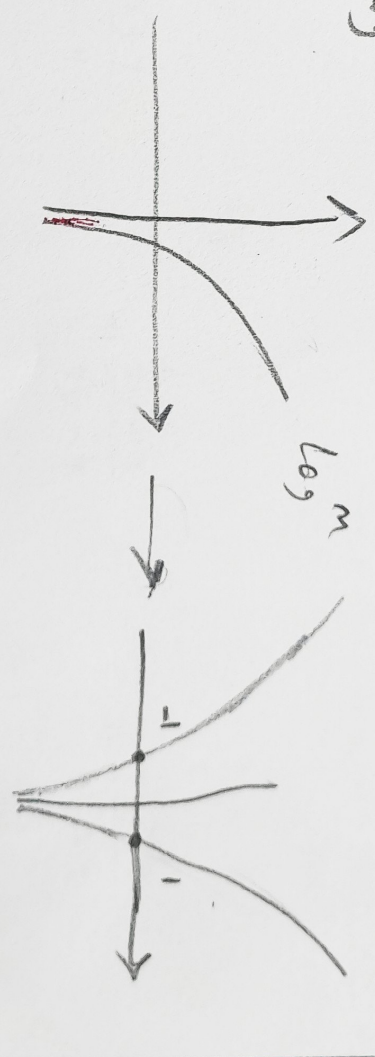
$D = (\cdot, +)$

ب)  $y = \log_{m^1} \rightarrow y = r \log_m$



$\log_m$

19



$\log_m^r$

$$v) \left(\frac{1}{4}\right)^t = \frac{1}{4} \quad \lg\left(\frac{1}{4}\right)^t = \lg\frac{1}{4} \rightarrow t(\lg 1 - \lg 4) = -(\lg^{\mu} + \lg^{\nu})$$

$$\rightarrow t = \frac{-(\lg^{\mu} + \lg^{\nu})}{\mu \lg^{\nu} - \nu \lg^{\mu}} \quad \left. \begin{array}{l} \lg_{\mu}^{\delta} \\ \lg_{\mu}^{\delta} \end{array} \right\} \rightarrow \lg_{\mu}^{\nu} = \frac{\nu}{\mu}$$

$$\left. \begin{array}{l} \div \lg^{\mu} \\ \rightarrow \end{array} \right\} t = \frac{14}{\mu} \quad \frac{14}{\mu} \times 90 = \mu \lambda_0$$

$$1) \left(\frac{1}{\lambda}\right)^t = \frac{1}{\nu} \quad \lg_{\mu}^{\left(\frac{1}{\lambda}\right)^t} = \lg_{\mu}^{\frac{1}{\nu}} \rightarrow t(\lg_{\mu}^{\nu} - \lg_{\mu}^{\lambda}) = -\lg_{\mu}^{\nu}$$

$$t\left(\frac{10}{4} - \mu \times \frac{10}{\lambda}\right) = -\frac{10}{4} \rightarrow t = 1 \quad \lambda \times \nu = 24$$