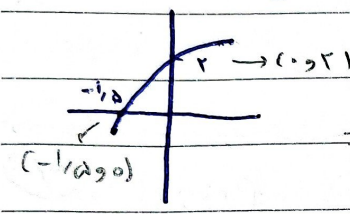


از ریزش ایستاد

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3 $y = 1 - \log_c (a^x - b)$ $b + c = -\frac{\mu}{r}$ $(a+c)b$ ①

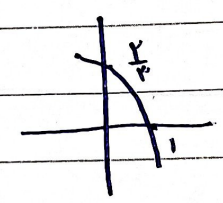


4 $(0, r) \rightarrow r = 1 - \log_c a^{-b} \rightarrow -1 = \log_c^{-b}$
 5 $b = -\frac{1}{c} \rightarrow b = -r$ $b + c = -\frac{\mu}{r}$
 6 $-\frac{1}{c} + c = -\frac{\mu}{r} \rightarrow -\frac{1+c^r}{c} = -\frac{\mu}{r} \rightarrow -r + r c^r = -\mu$
 7 $r c^r + \mu - r = 0 \rightarrow c^r - r \times \dots \rightarrow c = \frac{1}{r}$

8 $(-1/a, 0) \rightarrow 0 = 1 - \log_c^{-1/a^a + r} \Rightarrow \frac{1}{r} = -1/a^a + r \rightarrow a = 1$
 9 $(a+c)b = (\frac{1}{r} + 1) \times (-r) = -\mu$

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11 $f(x) = 1 + c x^a e^{bx}$ $f(-1) = ?$ ②

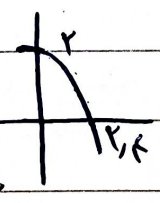
12 $(1, 0) \rightarrow 0 = 1 + c x^a e^{bx} \rightarrow -\frac{1}{c} = x^a e^{bx}$
 13 $\mu = \mu^b$ $b = 1$ $(0, \frac{r}{\mu}) \rightarrow \frac{r}{\mu} = 1 + c x^a e^{bx}$



14 $f(-1) = 1 + c x^a e^{bx} \rightarrow 1 + \frac{c x^a e^{bx}}{\mu} \Rightarrow 1 + \frac{-\frac{1}{\mu}}{\mu} = \frac{\mu - 1}{\mu}$

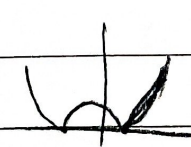
16
17 $y = c + \log_a^{a^x + b}$ $\frac{a}{b} = ?$ ③

18 $(0, r) \rightarrow r = c + \log_a^b$
 19 $(r, 0) \rightarrow 0 = c + \log_a^{r^a + b}$



20 $r = \log_a^b - \log_a^{r^a + b} \rightarrow \mu^r = \frac{b}{r^a + b}$
 21 $40a + r^a b = b \rightarrow 40a = -r^a b$ $\frac{a}{b} = \frac{r^a}{40} = -\frac{1}{40}$

24 $f(x) = \log_g (|a^x - a| - a)$



25 $|a^r - a| = a$ $(a-r)(a+1) = 0$

26 $|a^r - a| > a$ $D_f = (-\infty, -1) \cup (1, +\infty)$

$a^r - r + a = 0 \rightarrow (a+r)(a-1) = 0$



$f(-1) = 1$

$f(x) = r + r^{b-a}$

$g(x) = ar^x - r^{a+x} \quad f^{-1}(1) = -1$ (A)

$g(1) = f(1) \rightarrow -1 - r^{1+a} = 1 - r + r^{b-a} \rightarrow b-a=1 \quad r^{b-a}=?$

$f(-1) = 1 \rightarrow 1 = r + r^{b+a} \quad r^m = r^{b+a} \rightarrow b+a=m$

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

$r^b = r \rightarrow b = r - a = 1$

$f(x) = r + (\frac{1}{r})^{Ax+B}$

$y = +ar^x - a \quad f(x) = ?$ (7)

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

$r = r^{-A-B} \rightarrow A+B = -1$

$m=2 \rightarrow r = -r + r^{-2A+2B}$

$r = r^{A+B}$

$A+B = -1$

$f(x) = -r + r^x \rightarrow f(2) = 4$ (4)

$2A+B = r$

$A = -1 \quad B = 0$

$m(x) = n \times (\frac{1}{a})^{\frac{x}{a}} = \frac{1}{a} n$

$(\frac{1}{a})^{\frac{x}{a}} = \frac{1}{a}$ (V)

$\frac{x}{a} = \frac{\log \frac{1}{a}}{\log \frac{1}{a}} = \frac{\log a - \log a}{\log 1 - \log a} = 0$

$\frac{x}{a} = \frac{\log r - \log r}{r \log a - r \log a}$

$\log r = \frac{1}{\log a} = \frac{1}{r} = \frac{a}{r}$

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

$\log r = \frac{1}{\log a} = \frac{1}{r} = \frac{a}{r}$

$= \frac{r \times a}{r} - \frac{r \times a}{r} = \frac{1a}{r}$

$E = n \cdot \min$

$m(x) = n \times (\frac{1}{x})^{\frac{x}{v}} = \frac{1}{v} n$

$(\frac{1}{x})^{\frac{x}{v}} = \frac{1}{v}$ (1)

$\frac{x}{v} = \log \frac{1}{x} \rightarrow \frac{x}{v} = \frac{\log \frac{1}{x}}{\log \frac{1}{x}}$

$\frac{x}{v} = \frac{\log 1 - \log x}{\log v - \log 1} = 0 - \log v$

$\log r = \frac{1}{\log r} = \frac{1}{1/4} = \frac{a}{1}$

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

$\log v = \frac{1}{\log v} = \frac{1}{0/4} = \frac{a}{10}$

$E = n \cdot \min$ (1)

$\frac{1}{v} \times -r + \frac{a}{1}$



SUBJECT:

Year: Month: Day:

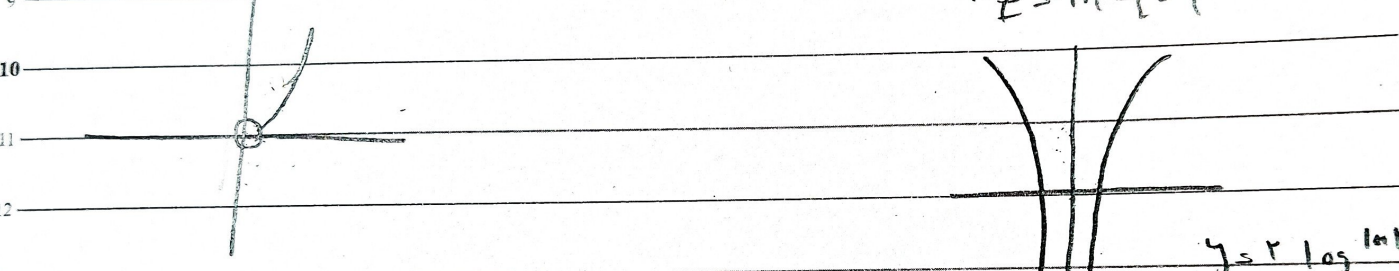
1 $M(t) = 0.1 \times \left(\frac{94}{100}\right)^t = \frac{1}{10} a \rightarrow \left(\frac{94}{100}\right)^t = \frac{1}{10} \rightarrow t = \log_{\frac{94}{100}} \frac{1}{10}$ (9)

2 $t = \log_{\frac{94}{100}} \frac{1}{10} = \frac{\log \frac{1}{10}}{\log \frac{94}{100}} = \frac{\log 1 - \log 10}{\log 94 - \log 100} = \frac{0 - \log 10}{\log 94 - 2}$

3 $94 = 10 \times 10^{\Delta} = \frac{-0.1 \Delta}{1 \Delta + 0.1 \Delta - 2} = \frac{-0.1 \Delta}{-0.9 \Delta} = \boxed{1.1}$ $\omega \log^r + \log^m$

4 $y = a \log^r x$ $\rightarrow a x^r$ $\Rightarrow \log a x^r \rightarrow |x|^r$ (10)

5 $y = a \log^r x$ $D_f = (0, +\infty)$ $y = r \log_{10} |x|$ $D_f = |R - \{0\}|$



8 $y = r \log_{10} |x|$

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