

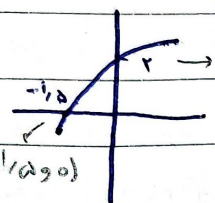
20

از روبرو

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$$y = 1 - \log_c (a^x - b)$$

$$b + c = -\frac{\mu}{r} \quad (a+c)b \quad \textcircled{1}$$



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

$$b = -\frac{1}{c} \rightarrow b = -r \quad b + c = \frac{\mu}{r} \quad \textcircled{2}$$

$$\frac{-1}{c} + c = \frac{\mu}{r} \rightarrow \frac{-1 + c^2}{c} = \frac{\mu}{r} \rightarrow -r + rc^2 = -\mu$$

$$rc^2 + \mu - r = 0 \rightarrow c^2 - r \times \text{something} \rightarrow c = \frac{1}{r}$$

$$(-1/a, 0) \rightarrow 0 = 1 - \log_c^{-1/a^a + r} \Rightarrow \frac{1}{r} = -1/a^a + r \rightarrow a = 1$$

$$(a+c)b = (\frac{1}{r} + 1) \times r = \boxed{-\mu}$$

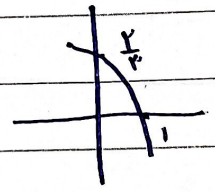
$$f(x) = 1 + c x^a e^{bx}$$

$$f(-1) = ?$$

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

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

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



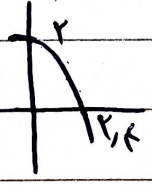
$$y = c + \log_a^{a^x + b}$$

$$\frac{a}{b} = ?$$

$$(0, r) \rightarrow r = c + \log_a^b$$

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

$$\log_a \frac{b}{r^a + b}$$



$$r = \log_a^b - \log_a^{r^a + b} \rightarrow \mu^r = \frac{b}{r^a + b}$$

$$40a + r^a b = b \rightarrow 40a = -r^a b \quad \frac{a}{b} = \frac{r^a}{40} = \boxed{-r^a}$$

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

$$|a^x - a| = a \rightarrow (a - r)(a + r) = a$$

$$|a^x - a| > a \quad D = (-\infty, -1) \cup (1, \infty)$$

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



$f(-1) = 1$

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

$g(x) = ar^x - r^{a+x}$

$f^{-1}(1) = -1$ (4)

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

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

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

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

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

$y = +ar^x - a$

$f(x) = ?$ (7)

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

$-A-B$

$A+B = -1$

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

$r = r^{A+B}$ (5)

$\begin{cases} A+B = -1 \\ rA+B = r \end{cases}$

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

$A = -1 \quad B = 0$

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

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

(✓)

$\frac{E}{r_0} = \frac{\log \frac{1}{a}}{\log \frac{1}{a}} = \frac{\log a - \log a}{\log 1 - \log a}$

$= \frac{\log r - \log r}{r \log a - r \log a}$ (5)

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

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

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

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

$E = r \cdot a \cdot \min$

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

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

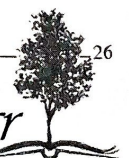
$\frac{x}{v} = \frac{\log 1 - \log v}{\log v - \log 1} = \frac{0 - \log v}{\log v - 0} = \frac{-\log v}{\log v} = -1$

$\log \frac{1}{v} = \frac{1}{\log v} = \frac{1}{1.4} = \frac{a}{r}$

$\log \frac{1}{v^r} = \frac{1}{\log v^r} = \frac{1}{0.4} = \frac{a}{r}$

$E = r \cdot a \cdot \min$ (5)

$\frac{1}{v} \times -r + \frac{a}{r}$ (5)



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
3 $t = \log_{\frac{94}{100}} \frac{1}{10} = \frac{\log \frac{1}{10}}{\log \frac{94}{100}} = \frac{\log 1 - \log 10}{\log 94 - \log 100} = \frac{0 - \log 10}{\log 94 - 2}$ (9)

4
5 $94 = 10 \times 10^{\Delta} = \frac{-0.1 \Delta}{1 \Delta + 0.1 \Delta - 2} = \frac{-0.1 \Delta}{-0.9 \Delta} = \frac{1}{9}$ $\omega \log^2 + \log^m$

6
7 $y = a \log^2 x \rightarrow a x^2$ $\Rightarrow \log a x^2 \rightarrow |x|^2$ (10)
8 $y = a \log^2 x$ $D_f = (0, +\infty)$ $y = r \log_{10} |x|$ (10)
9 $= y = a x^2$ $D_f = |R - \{0\}|$

