Year Month Date ( )

subject

تکلیف 25

آرادنبی نژاد

(۱)

$y = 1 - \log_c(ax-b)$ $\quad b+c = \frac{-۳}{۲}$ $\quad y = 1 - \log_c^{(ax+b)}$

(نقطه‌ی روی محور) $1 - \log_c^{-b} = ۲ \quad \log_c^{-b} = -1 \quad c^{-1} = -b$

$\frac{1}{c} = -b \quad y = 1 - \log_c^{-\frac{۳}{۲}a-b} = ۰ \quad \log_c^{-\frac{۳}{۲}a-b} = +1$

$c+b = \frac{-۳}{۲}a \quad a = +1 \quad \frac{-1}{c} + c = \frac{c^۲-1}{c} = -\frac{۳}{۲}$

$۲c^۲ + ۳c - ۲ = ۰ \quad c = \frac{1}{۲}, \quad b = -۲ \quad (a+c)b = -۲$

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(۲)

$(۰, \frac{۲}{۳}) \quad 1 + ۳^a \times c = \frac{۲}{۳} \quad c \times ۳^a = -۳^{-1} \longrightarrow c = -1, a = -1$

$(1, 1) \quad 1 - 1 \times ۲^{-۲+b} = ۰ \quad 1 = ۲^{-1+b} \quad -1 + b = ۰ \quad b = 1$

$f(x) = 1 - ۳^{-1+x} \quad f(-1) = 1 - ۳^{-۲} = \frac{۸}{۹}$

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(۳)

$۲ = c + \log_\omega^b \quad -c = \log_\omega^{۲/۴a+b}$

$\log_\omega^b - \log_\omega^{۲/۴a+b} = ۲ \quad \log_\omega^{\frac{b}{۲/۴a+b}} = ۲$

$\frac{b}{۲/۴a+b} = ۲\omega \quad ۴b = -۹a$

$\frac{a}{b} = \frac{-۴}{۹}$

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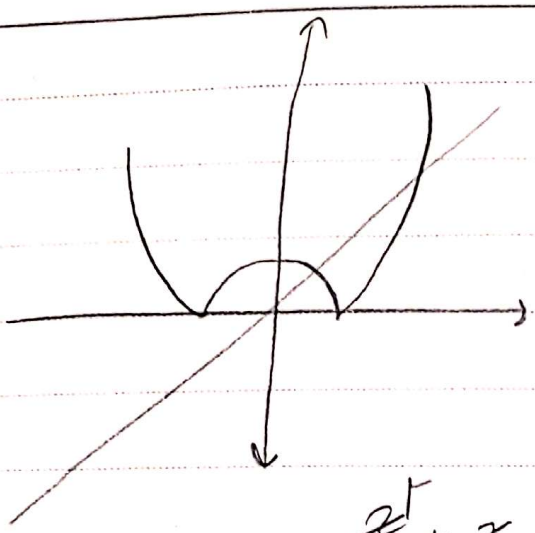

$|x^2-2|-x>0$ (۶)

$|x^2-2|>x \quad |x^2-2|\leq x$

$(x-2)(x+1)\leq 0$

$x \to 2$ ✓

$\to -1$ ✗

$x^2+x-2\leq 0 \quad (x+2)(x-1)\leq 0$

$Df = (-\infty,1)\cup(2,+\infty)$

$g(1)\leq f(1) \longrightarrow -1-2+4\leq 2$ (۵)

$2\leq b-a \leq 1$ ← $b-a$ / $2+2$

$1\leq 2+2 \quad b+a \longrightarrow b+a=2$

$\frac{\mu+1}{2}\leq 2 \Rightarrow b \quad \frac{\mu-1}{2}\leq 1 \; a$ ✓

$2(2)-(1)\leq \frac{\mu}{2}$

$x=1 \quad 0\leq -2+\left(\frac{1}{2}\right)^{A+B} \quad 2\leq 2^{-A-B} \quad A+B\leq 1$ (۷)

$x\leq 2 \quad 2\leq -2+2^{-2A-B} \longrightarrow -2\leq 2A+B$

$(A+B\leq -1)\times -1 \longrightarrow -A-B\geq +1$

$2A+B\leq -2 \qquad 2A+B\leq -2$

$A\leq -1 \; , \; B\leq 0$

$f(b)\leq -2+2^x$

$f(2)\leq 0$

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$M(A) \le 2_0 \times \left(\frac{1}{9}\right)^{\frac{A}{90}} = \frac{1}{2} \quad \left(\frac{1}{9}\right)^{\frac{A}{90}} \le \frac{1}{2}$ (V)

$\log_3^1 \omega \le \frac{1}{\log_2^3} \le \frac{5}{12} \quad \log_3^2 \omega \le \frac{1}{\log_3^3} \le \frac{5}{6}$

$\log_3^2 \frac{1}{3} \le \frac{1}{\log_2^3} \le \frac{5}{8} \quad \log_3^6 \le \frac{1}{\log_6^3} \le \frac{5}{3}$

$\log \frac{1}{\frac{2}{9}} = \frac{A}{90} \quad \frac{A}{90} \le \frac{\log \frac{1}{3}}{\log \frac{2}{9}} \le \frac{\log_3^1 - \log_3^3}{\log_3^2 - \log_3^3}$

$\frac{0 - \log_3^3 + \log_3^2}{3\log_3^2 - 2\log_3^3} \rightarrow \frac{\frac{-5}{6} - \frac{5}{12}}{3 \times \frac{5}{12} - 2 \times 5} \le \frac{19}{3}$

As a result minute

(b)

$M(A) \le 2^6 \times \frac{6}{8} \le \frac{1}{6} \quad \log_{\frac{6}{8}}^{\frac{1}{6}} \le \frac{A}{60}$ (1)

$\frac{A}{6} \le \frac{\log \frac{1}{6}}{\log \frac{6}{8}} \le \frac{\log_3^1 - \log_3^6}{\log_3^6 - \log_3^8} \le \frac{-5}{3} \quad \frac{5}{3} - \frac{15}{8}$

$\le 8 \rightarrow$ As a day

$\log_3^2 \le \frac{1}{\log_2^3} \le \frac{5}{8}$

$\log_3^6 \le \frac{1}{\log_6^3} \le \frac{5}{3}$

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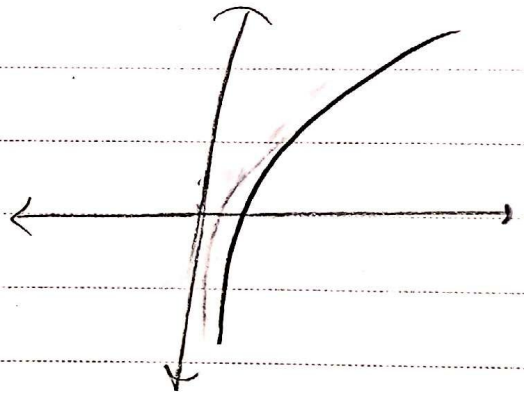
$M(A) = x\left(\frac{99}{100}\right)^A = \frac{1}{2}n \quad \log_{\frac{99}{100}} \frac{1}{2} < A$ ⑨

$\frac{\log \frac{1}{2}}{\log \frac{99}{100}} \rightarrow \frac{-\log 2}{\log 99 - \log 100} = \frac{-\log 2}{2\log 3 + \log 11 - 2} = \frac{-0.301}{-0.052} = 5.78$

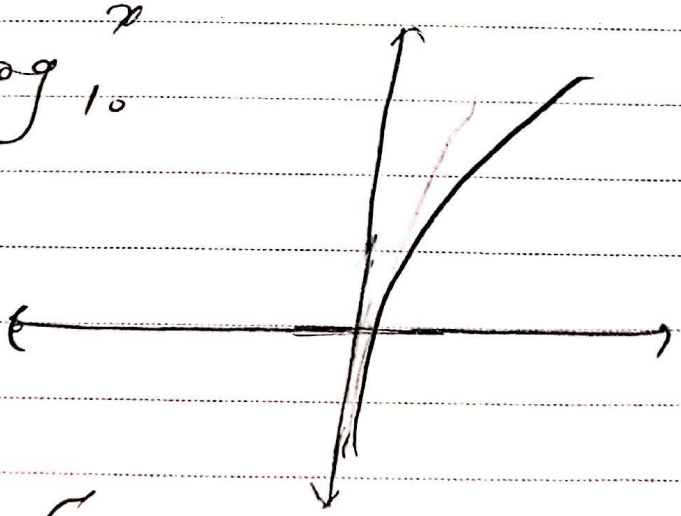
$y = 9^{\log_3 x} = x^2$ ⑩ غیر خطی

$y = \log_{10}^{x^2} = 2\log_{10}^{x}$

1) $\log_{10}^{x}$



2) $2\log_{10}^{x^2} \rightarrow 2\log_{10}^{x}$



سمت راست نزدیک تر به محور x ها

۱۰ بررسی آکادمی نمونه