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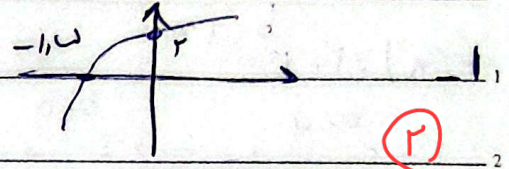
کتابخانه یازدهم دبیر

SUBJECT

Year: Month: Day:

$$y = 1 - \log_c^{(a^m - b)}$$

$$b + c = -\frac{r}{r}$$



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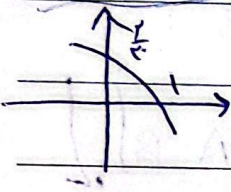
$$0 = 1 - \log_c^{-1/a a - b}$$

$$\log_c^{-1/a a - b} = 1 \rightarrow C = -1/a a - b \rightarrow C + b = -1/a a$$

$$C + b \rightarrow C = \frac{1}{c} = -\frac{r}{r} \rightarrow \frac{c-1}{c} = -\frac{r}{r} \rightarrow r(c-1) = -r \rightarrow r(c-1) = -r$$

$$C + b = -\frac{r}{r} \rightarrow a = 1 \checkmark$$

$$\frac{1}{r} + b = -\frac{r}{r} \rightarrow b = -r \checkmark (a+b) = (1+r) = -r \checkmark$$



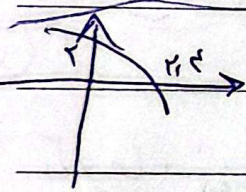
$$f(m) = 1 + c x r^{a+b m}$$

$$0 = 1 + c x r^{a+b} \rightarrow -1 = c x r^{a+b} \quad r = r^b$$

$$\frac{r}{r} = c x r^a + 1 \rightarrow c x r^a = -\frac{1}{r} \rightarrow 1 + c x r^a = \frac{a}{r} \rightarrow a = \frac{1}{r}$$

$$1 - \frac{1}{r} = \frac{1}{r} \checkmark \leftarrow (1 + (-\frac{1}{r}))$$

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$$y = c + \log_a^{(a^m + b)}$$

$$\begin{cases} c + \log_a^b = r \\ c + \log_a^{(a^m + b)} = 0 \end{cases}$$

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

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

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$$f(m) = \log_c^{(m^2 - r) - n} \rightarrow m^2 - r - n > 0 \quad (m-1)(m+1) > 0$$

$$m^2 + m - r < 0 \quad (-\infty - 1) \cup (r + \infty)$$

$$-1 < m < r \quad (-r, 1) \cup (-\infty, r) \cup (r, +\infty)$$

(-2, 1) (r, \infty)

(I) (-\infty, -\sqrt{r-1})

(I) (-\infty, -\sqrt{r}) \cup (r, +\infty)

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

2 $r + r^{b+a} = 1 \rightarrow r = r^{b+a} \rightarrow b+a = r$ $r + r^{b-a} = r \rightarrow r = r^{b-a}$

3 $\begin{cases} b+a = r \\ b-a = 1 \end{cases}$ ~~$b+a = r$~~ $r^{b-a} \rightarrow r(r) = 1 = (r)$ b-a=1

4 $b = r, a = 1$ ✓

5 $f(m) = -r + (\frac{1}{r})^{Am+B}$ $y = x^r - m$ (1,0) (r,0) (r) (c)

6 $0 = -r + \frac{1}{r}^{A+B} \rightarrow r = \frac{1}{r}^{A+B} \rightarrow r = r^{-A-B} \rightarrow -A-B = 1$

7 $r = -r + \frac{1}{r}^{rA+B} \rightarrow r = \frac{1}{r}^{rA+B} \rightarrow r = r^{-rA-B} \rightarrow r = -rA-B$

8 $f(m) = -r + \frac{1}{r}^{-m} \rightarrow f(r) \rightarrow -r + \frac{1}{r}^{-r} \rightarrow -r + r^r \rightarrow -r + 1 = (c)$ ✓ A=-1, B=0

9 $P = P_0 e^{kt}$ $P_t = \frac{A}{r} \cdot P_t \rightarrow \frac{1}{r} A = \frac{A}{r} \cdot P_t$ (r) (v)

10 $\rightarrow \frac{A}{r} = \frac{1}{r} + r^{-1} \log \log \frac{r}{A} = t \rightarrow \frac{\log \frac{r}{A}}{\log \frac{r}{A}} \rightarrow \frac{\log r + \log \frac{1}{A}}{\log r - \log A}$

11 $\frac{\frac{10}{12} + \frac{10}{12}}{\frac{10}{12} - \frac{10}{12}} = \frac{\frac{20}{12}}{\frac{0}{12}} \rightarrow \frac{20}{12} = \frac{20}{12} \times 6 = (rA)$ ✓

12 $M_r = \frac{99}{100} + A_1$ (a)

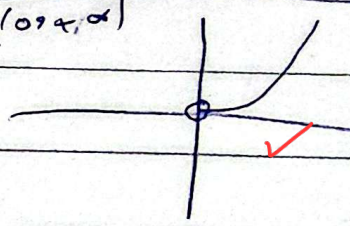
13 $\frac{1}{r} = \frac{(99)}{100} \rightarrow \log \log \frac{1}{r} = t - \log \frac{99}{100} \rightarrow \frac{1}{\log \frac{1}{r}} \rightarrow \frac{1}{\log \frac{1}{r}}$ (r)

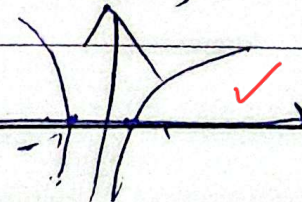
14 $\frac{\log \frac{99}{100}}{\log \frac{1}{r}} \rightarrow \frac{\log \frac{99}{100}}{\log \frac{1}{r}} = r \cdot \log \frac{1}{r}$ ✓

15 $y = \log_r^m \rightarrow r^{\log_r^m} = m^r \rightarrow m > 0, r(0 < r < \infty)$ (10)

16 $y = \log_m^r \rightarrow m^{\log_m^r} = r^m$ (r)

17 $R = f \circ f$

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$$\log \frac{V}{A} = t \rightarrow \frac{\log r}{\log \frac{b}{r}} \rightarrow \frac{\frac{10}{5}}{\log r \log \frac{b}{r}} = \frac{\frac{10}{5}}{r \log r - \frac{10}{5}} \rightarrow \frac{\frac{10}{5} (r)}{r \times \frac{10}{5} - \frac{10}{5}} \quad \textcircled{r} \quad \textcircled{A}$$

$$A \xrightarrow{d} xV \rightarrow \textcircled{04} \checkmark \quad \left(\frac{10}{5} \right)$$