

بسم الله الرحمن الرحيم

19, 10

۲ ω۱ $\frac{1}{c} = 1 - \log_c \left(\frac{a-b}{c} \right)$

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SUBJECT

Year: Month: Day:

$b+c = -\frac{r}{r} \left(1 - \log_c \left(\frac{a-b}{c} \right) \right) = 0 \Rightarrow c = -\frac{r}{r} a - b$ (r) (1)

$r = 1 - \log_c \left(\frac{a-b}{c} \right) \Rightarrow r = 1 - \log_c \left(\frac{a-b}{c} \right) \Rightarrow b+c = -\frac{r}{r} a \Rightarrow -\frac{r}{r} = -\frac{r}{r} a \Rightarrow a=1$ ✓

$\Rightarrow \frac{1}{c} = -b \stackrel{c=\frac{1}{r}}{\Rightarrow} b = -r \quad b+c = -\frac{r}{r} \Rightarrow c - \frac{1}{c} = -\frac{r}{r}$

$\Rightarrow c^r + \frac{r}{r} c - 1 = 0 \quad \frac{-\frac{r}{r} \pm \sqrt{\left(\frac{r}{r}\right)^2 + 4}}{2} \Rightarrow c = -1000i$
 $\Rightarrow c = \frac{1}{r} \quad (1 + \frac{1}{r}) a - r = -r$ ✓

$\begin{matrix} 1 & | & 0 \\ 0 & | & \frac{r}{r} \end{matrix} \rightarrow 0 = 1 + c \times r \rightarrow r = -1 \rightarrow \log_c \left(\frac{a-b}{c} \right) = a+b$ (r) (r)
 $\frac{r}{r} = 1 + c \times r \rightarrow -r = 1 + c \times r \rightarrow (c-1)(r+1) = 0 \Rightarrow b+a=0 \Rightarrow b=-a$ ✓

$\Rightarrow f(-1) = 1 - \frac{1}{9} = \frac{8}{9}$ ✓

$\begin{matrix} r & | & 0 \\ 0 & | & r \end{matrix} \rightarrow -c = \log_c (r, f(a+b)) \rightarrow a^{-c} = r, f(a+b) \Rightarrow a^{-c} = a^r \times a^{-c} = a^{r-c} (1+r)$ (r)
 $r = c + \log_c (b) \rightarrow \omega = b \rightarrow r \omega \times \omega^{-c} = b \Rightarrow \omega^{-c} = \frac{b}{r \omega} \Rightarrow \frac{b}{r \omega} = \frac{1}{\omega} \Rightarrow \frac{b}{r} = 1 \Rightarrow \frac{b}{r} = 1 \Rightarrow b=r$ (r) (r)

$|n^r - n| > n \Rightarrow n^r - n > n \rightarrow n^r - 2n > 0 \rightarrow \frac{-1-r}{2} < n < \frac{-1+r}{2}$ (r)
 $|n^r - n| < n \Rightarrow n^r - n < -n \rightarrow n^r + n - r < 0 \rightarrow \frac{-r-1}{2} < n < \frac{-r+1}{2}$ (r)
 $\cup \emptyset, (-\infty, 1) \cup (r, +\infty)$ ✓

$g(1) = f(1) \Rightarrow -1 - r + 1 = r + r \Rightarrow r = r \rightarrow 1 = b - a$ (r) (r)

$f(-1) = b \Rightarrow 10 = r + r \rightarrow r = 5 \Rightarrow a+b = r$ ✓

$\Rightarrow a=1, b=r$ ✓

$r b - a = r$ ✓

$$f(1) = g(1) \rightarrow 0 = 1 + 1^{-A-B} \rightarrow A+B = 1 \quad (2) \quad (9)$$

$$f(2) = g(2) \rightarrow 2 = -1 + 2^{-A-B} \rightarrow 2^{-A-B} = 3 \rightarrow 2A+B = -1 \quad (3) \quad (10) \quad \left. \begin{matrix} A+B=1 \\ 2A+B=-1 \end{matrix} \right\} \rightarrow A=-1, B=0$$

$$f(x) = \cos x \rightarrow \frac{m}{y} = M\left(\frac{\Delta}{9}\right)^t \rightarrow \log \frac{m}{y} = t \log \frac{\Delta}{9} \rightarrow t = -\frac{\log \frac{m}{y}}{\log \frac{\Delta}{9}} \quad (2) \quad (11) \quad (12)$$

$$= -\frac{\log \frac{m}{y}}{\log \frac{\Delta}{9}} = -\frac{\log m - \log y}{\log \Delta - \log 9} = \frac{-90}{-10} \text{ h } = 9 \text{ h } \quad (13) \quad (14)$$

$$f(x) = \sin x \rightarrow \frac{M}{V} = M\left(\frac{V}{\lambda}\right)^t \rightarrow \log \frac{M}{V} = t \log \frac{V}{\lambda} \rightarrow t = -\frac{\log \frac{M}{V}}{\log \frac{V}{\lambda}} \quad (2) \quad (15) \quad (16)$$

$$= \frac{-\log \frac{M}{V}}{\log \frac{V}{\lambda} - \log \frac{V}{\lambda}} = \frac{-\log \frac{M}{V}}{-\log \frac{V}{\lambda}} = \frac{f_0}{-a} = \frac{m \omega \lambda}{\omega \lambda} = \omega \lambda \quad (17) \quad (18)$$

$$100 - 12, \omega = 12, \omega = \frac{V}{\lambda} \rightarrow \log \frac{V}{\lambda} = \frac{a}{\lambda} \rightarrow \log \frac{V}{\lambda} = \frac{\omega}{\mu}$$

$$\frac{100 \times \left(\frac{12}{100}\right)^t}{100} = \frac{1}{\mu} \times \frac{100}{100} = \left(\frac{12}{100}\right)^t = \frac{1}{\mu} \quad (2) \quad (19) \quad (20) \quad (21)$$

$$\Rightarrow t \log \frac{12}{100} = \log \frac{1}{\mu} \Rightarrow t (\log 12 - 2) = -\log \mu \Rightarrow t (\log 12 - 2) = \log \mu$$

$$\log 12 = 1 - \log 10 \Rightarrow t (1 - \log 10 - 2) = -\log \mu \Rightarrow t (-1 - \log 10) = -\log \mu \Rightarrow t = \frac{\log \mu}{1 + \log 10} \quad (22) \quad (23) \quad (24)$$

