

12, 17, 18

عزاز حقیقی، با، دهم، A

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

$$\Rightarrow \log_c^{-b} = -1 \Rightarrow -b = \frac{1}{c} \Rightarrow \frac{1}{c} = \frac{r}{r} + c$$

$$\Rightarrow rc^r + rc - r = 0 \Rightarrow c < \frac{-r}{r} \text{ و } \frac{1}{r} \Rightarrow b = -r \checkmark$$

$$\frac{1}{r} = -1/ra + r \Rightarrow a = 1 \checkmark$$

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

$$1 + c \times r^{a+bn} \xrightarrow{(19.1)} = 1 + c \times r^{a+b} \Rightarrow r^{a+b} c = -1$$

$$\xrightarrow{(19.2)} \frac{r}{r} = 1 + c \times r^a \Rightarrow -\frac{1}{r} = r^a c \quad (2)$$

$$\frac{r^a \times r^b \times c}{r^a \times c} = +r \Rightarrow r^b = r \Rightarrow b = 1 \checkmark$$

$$\Rightarrow r^a \times c = -\frac{1}{r} \Rightarrow f(-1) = 1 + \left(-\frac{1}{r} \times \frac{1}{r}\right) = \frac{r^2 - 1}{r^2}$$

$\frac{r^2 - 1}{r^2}$

$$y = c + \log_a^{a^m + b} \xrightarrow{(r)} c + \log_a^{r \cdot (a^m + b)} = \dots$$

$$\xrightarrow{(19r)} c + \log_a^b = r \quad (r)$$

$$c = -\log_a^{r \cdot (a^m + b)} \Rightarrow -\log_a^{r \cdot (a^m + b)} + \log_a^b = r$$

$$\log_a^{\frac{b}{r \cdot (a^m + b)}} = r \Rightarrow \frac{b}{r \cdot (a^m + b)} = r \cdot a \Rightarrow \therefore a = -\frac{r \cdot b}{r \cdot (a^m + b)}$$

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

$$|n^r - r| - n \xrightarrow{\checkmark} \Rightarrow \frac{-\sqrt{r}}{n^r - n - r} \cdot \frac{\sqrt{r}}{n^r - n - r}$$

$$\Rightarrow D_f = (-\infty, -1) \cup (1, r) \cup (r, +\infty) \quad (1)$$

$$-n^r - r^m + \Lambda \xrightarrow{n=1} -1 - r^m + \Lambda \Rightarrow r$$

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

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

$$\Rightarrow \boxed{\begin{matrix} b=r \\ a=1 \end{matrix}} \checkmark$$

$$r^{b-a} \Rightarrow (r) \checkmark$$

$$n^r - n \xrightarrow{\substack{n=1 \\ n=r}} \begin{matrix} n=1 \\ n=r \end{matrix} \Rightarrow -r + \left(\frac{1}{r}\right) \quad A+B \quad (r) \quad (r) \Rightarrow A+B =$$

$$-r + \left(\frac{1}{r}\right) = r \Rightarrow rA+B = -r \quad \left\{ \begin{array}{l} A+B = -1 \\ rA+B = -r \end{array} \right. \Rightarrow \begin{array}{l} A = \\ B = \end{array}$$

$$f(r) = -r + \left(\frac{1}{r}\right)^{-r} \Rightarrow \checkmark$$

$$\frac{m}{r} = \frac{m}{r^{\frac{t}{9}}} \Rightarrow r^{\frac{t}{9}} = r \Rightarrow \frac{t}{9} = \log_r r$$

$$\Rightarrow \frac{\log \omega}{\log r} = \frac{\log \omega}{\log r} \Rightarrow \frac{\log r^m}{\log r} = \frac{1r}{V} \Rightarrow \log r^m = \frac{1r}{V} \log$$

$$\log r^{\frac{t}{9}} \Rightarrow \frac{\log r^m + \log r}{\log r} \Rightarrow \frac{19}{V} \Rightarrow \frac{t}{9} = \frac{19}{V}$$

$$t = \frac{19V}{9}$$

مجموعه باقی مانده = $\frac{m_0}{4} = m_0 \left(\frac{1}{4}\right)^t \rightarrow \left(\frac{1}{4}\right)^t = \frac{1}{4}$

$$\log \rightarrow t \log \frac{1}{4} = \log \frac{1}{4} \rightarrow t (r \log r - r \log r) = -(\log r + \log r)$$

$$t = \frac{-(\log r + \log r)}{r \log r - r \log r} \xrightarrow{\div \log r} t = \frac{-(\log_r r + 1)}{r \log_r r - r} = \frac{-(\frac{V}{1r} + 1)}{r(\frac{V}{1r}) - r} = \frac{19}{r}$$

$$\frac{\log_r \omega}{\log_r r} = \frac{\log r}{\log r} = \frac{1, r}{r, r} = \frac{V}{1r}$$

$r \wedge \text{min} = 90 \times \text{second}$

date:

subject:

$$\frac{m}{v} = \frac{m}{r^{\frac{t}{\lambda}}} \Rightarrow r^{\frac{t}{\lambda}} = v \quad \text{--- (9)}$$

$$\Rightarrow \frac{t}{\lambda} = \log_r v \Rightarrow \frac{t}{\lambda} = \frac{14}{4} \Rightarrow t = \frac{14\lambda}{4}$$

$$\frac{\log m}{\log r} = \frac{\log v}{\log r} \Rightarrow \frac{\log v}{\log r} = \frac{14}{4}$$

$$\frac{m}{r} = \frac{m}{r^{\frac{t}{\lambda}}} \Rightarrow \frac{t}{\lambda} = \log_r r \Rightarrow \frac{t}{\lambda} = \frac{14}{4}$$

$$t = 4\lambda$$

$$\frac{\log m}{\log r} = \log_r r \Rightarrow \log_r r = 1,4$$

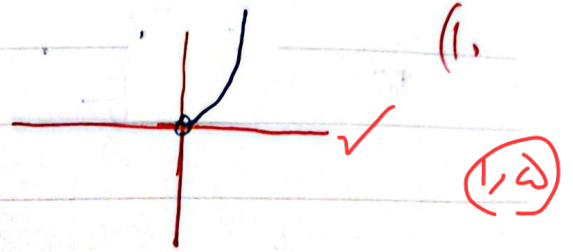
$$(0,94)^n A_0 = \frac{1}{r} A_0 \rightarrow (0,94)^n = \frac{1}{r}$$

$$\log \rightarrow n \log 0,94 = -\log r \rightarrow n = \frac{-\log r}{\log 0,94 - 1}$$

$$n = \frac{\log r}{r - \log(r^2 r)} = \frac{\log r}{r - (2\log r + \log r)} = \frac{\log r}{r - (2(0,17) + 0,17)}$$

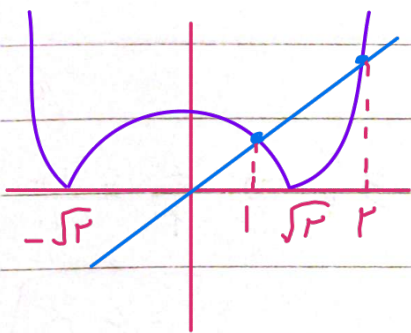
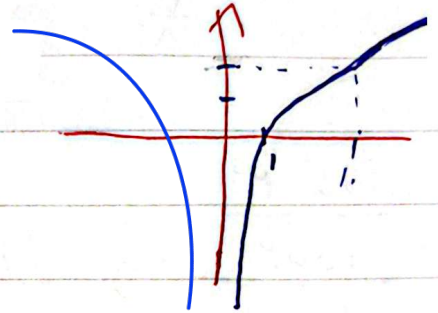
$$= \boxed{27}$$

الف) $y = 9 \log_9 n \Rightarrow n^2$
 $n > 0$



ب) $2 \log n$

$\log n^2 \rightarrow D = \{R - \{0\}\}$



$|n^2 - 2| > n$

-2

جایگزین رو من ضوابط تابع $y = |n^2 - 2|$ بالاتر از $y = n$ باشه!

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

حجم باقی مانده $= \frac{M_0}{V} = (\frac{V}{\lambda})^t M_0 \rightarrow (\frac{V}{\lambda})^t = \frac{1}{V}$

-1

$\log_3 \rightarrow t \log_3 \frac{V}{\lambda} = -\log_3 V \rightarrow t (\log_3 V - 3 \log_3 2) = -\log_3 V$

$t (\frac{1}{4} - 3 \times \frac{5}{8}) = -\frac{1}{4} \rightarrow t = 1$ هفته $\times V = 52$ روز