

$$y = 1 - \log_c(ax - b), \quad b + c = -\frac{r}{r} \quad (a+c)b = ?$$

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

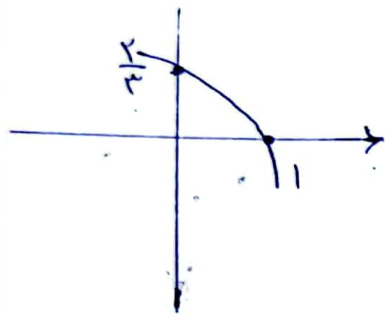
$$f(0) = r \rightarrow r = 1 - \log_c^{-b} \rightarrow -\log_c^{-b} = 1 \rightarrow \log_c^{-b} = -1 \rightarrow$$

$$c^{-1} = -b \rightarrow -b = \frac{1}{c} \rightarrow bc = -1$$

$$\begin{cases} b + c = -\frac{r}{r} \\ bc = -1 \end{cases} \rightarrow r\left(-\frac{1}{c} + c\right) = -\frac{r}{r} \times r \rightarrow -r + rc^2 = -r \rightarrow rc^2 + rc - r = 0$$

$$\rightarrow \Delta = r^2 \rightarrow \begin{cases} c_1 = \frac{-r + r}{r} = \frac{1}{r} \checkmark \\ c_2 = -r \end{cases}$$

$$\frac{1}{r} + b = -\frac{r}{r} \rightarrow b = -r \rightarrow (a+c)b = \left(1 + \frac{1}{r}\right) \times -r = \frac{r+1}{r} \times -r = -r - 1$$



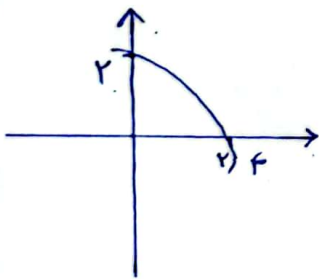
$$f(x) = 1 + c \times r^{a+bx} \quad f(-1) = ?$$

$$f(0) = \frac{r}{r} \rightarrow 1 + c \times r^a = \frac{r}{r} \rightarrow c \times r^a = -\frac{1}{r}$$

$$f(1) = 0 \rightarrow 1 + c \times r^{a+b} = 0 \rightarrow 1 + \underbrace{c \times r^a}_{-\frac{1}{r}} \times r^b = 1 + \left(-\frac{1}{r}\right) \times r^b = 0$$

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

$$f(x) = 1 + \underbrace{c \times r^a}_{-\frac{1}{r}} \times r^{bx} = 1 + \left(-\frac{1}{r}\right) \times r^x \rightarrow f(-1) = 1 + \left(-\frac{1}{r}\right) \times r^{-1} = \frac{r-1}{r}$$



$$y = c + \log_a(ax+b) \quad \frac{a}{b} = ?$$

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

$$f\left(\frac{r}{f}\right) = 0 \rightarrow 0 = c + \log_a \left(\frac{r}{f}a + b\right) \rightarrow -c = \log_a \left(\frac{r}{f}a + b\right)$$

$$a^{-c} = \frac{r}{f}a + b \rightarrow \left(\frac{1}{a}\right)^c = \frac{r}{f}a + b$$

$$\left(\frac{1}{a}\right)^{c-r} = b \rightarrow \left(\frac{1}{a}\right)^c \times \frac{1}{r a} = b \rightarrow \left(\frac{1}{a}\right)^c = r a b \rightarrow$$

$$r a b = \frac{r}{f}a + b \rightarrow r f b = r + f a \rightarrow \frac{a}{b} = \frac{r f}{r + f} = 1$$

$$f(x) = \log_f(|x^r - r| - x) \rightarrow |x^r - r| - x > 0 \rightarrow |x^r - r| > x \rightarrow \begin{cases} x^r - r > x & \text{①} \\ x^r - r < -x & \text{②} \end{cases}$$

$$\Rightarrow \text{① } x^r - x - r > 0 \rightarrow (x-r)(x+1) = 0 \rightarrow \frac{-r}{-r+1} = \frac{r}{1-r} \rightarrow (-\infty, -1) \cup (r, +\infty)$$

$$\Rightarrow \text{② } x^r - r < -x \rightarrow x^r + x - r < 0 \rightarrow \frac{-r}{-r+1} = \frac{r}{1-r} \rightarrow (-r, 1)$$

$$D = (-\infty, -1) \cup (r, +\infty)$$

$$u) \quad c + \lg_a r_1 a + b = \dots \quad (1) \quad c + \lg_a b = r \quad (2) \quad (2) - (1) = \lg_a \frac{b}{r_1 a + b} = r$$

$$b = 4 \cdot a + r_1 a b \rightarrow \frac{a}{b} = -\dots r$$

$$v) \quad \left(\frac{1}{9}\right)^t = \frac{1}{9} \quad \lg \left(\frac{1}{9}\right)^t = \lg \frac{1}{9} \rightarrow t(\lg 1 - \lg 9) = -(\lg^{\mu} + \lg^r)$$

$$\rightarrow t = \frac{-(\lg^r + \lg^{\mu})}{\mu \lg^r - r \lg^{\mu}} \quad \left. \begin{array}{l} \lg_r^{\mu} \\ \lg_{\mu}^r \end{array} \right\} \rightarrow \lg_{\mu}^r = \frac{r}{1r}$$

$$\left. \begin{array}{l} \div \lg^{\mu} \\ \rightarrow \end{array} \right\} t = \frac{19}{\mu} \quad \frac{19}{\mu} \times 9 = 19 \lambda_0$$

$$1) \quad \left(\frac{1}{\lambda}\right)^t = \frac{1}{V} \quad \lg \left(\frac{1}{\lambda}\right)^t = \lg \frac{1}{V} \rightarrow t(\lg_{\mu}^V - \lg_{\mu}^{\lambda}) = -\lg_{\mu}^V$$

$$t \left(\frac{1_0}{9} - \mu \times \frac{1}{\lambda} \right) = -\frac{1_0}{9} \rightarrow t = 1 \quad \lambda \times V = 24$$

$$9) \quad (0,94)^n = \frac{1}{\mu} \quad \lg (0,94)^n = \lg \frac{1}{\mu} \rightarrow n = \frac{-\lg^{\mu}}{\lg^{94} - \lg^1}$$

$$n = \frac{-\lg^{\mu}}{\lg(r_1 \times \mu) - r} = r r$$