

$$\log_m n = a$$

$$[b] = 1$$

$$\log_{mn} m^n = b \rightarrow \frac{\log_{mn} m^n}{\log_{mn} mn} = \frac{\log_m m + n \log_m n}{\log_m m + \log_m n} = \frac{1 + n \log_m n}{1 + \log_m n} = b$$

$$a > 0 \quad [b] = ?$$

$$a+1 = b \rightarrow \frac{ra+1}{a+1} = b$$

$$y = \sqrt{\frac{x}{\log \frac{x}{\frac{1}{y}}}} = \frac{x}{\log \frac{x}{\frac{1}{y}}} \geq 0 \rightarrow \frac{0}{-1 + \frac{1}{y}} \rightarrow [0, 1)$$

$$y = \frac{\log_f (x^2 - x - 2)}{\sqrt{x^2 - 1} + 1} \rightarrow (x^2 - x - 2) > 0 \rightarrow (x-2)(x+1) > 0$$

$$\rightarrow x^2 - 1 > 0 \rightarrow x < -1 \text{ or } x > 1$$

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

$$y \log_a n + \log_{\sqrt{n}} a = y \rightarrow y \log_a a + \log_a a^y = y$$

$$a = 0$$

$$x = a \quad \log_{\frac{a}{y}} a + \log_{\frac{a}{y}} a^y = y \rightarrow \frac{1}{t} + \frac{1}{t} - y = 0$$

$$t^2 - 2t + 1 = 0 \rightarrow (t-1)^2 = 0 \rightarrow t = 1$$

$$\log 2 \approx 0.3$$

$$\log 3 - \log 2 - \log 1 - \log 2 = 0.17 - 0.3 = -0.13$$

$$\log 3 \approx 0.47$$

$$1 - \log 2 = 0.69$$

$$\frac{10}{3} \pm \frac{20}{6} \rightarrow \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-10 \pm \sqrt{100 - 4(-2)(10)}}{2(1)} = \frac{-10 \pm \sqrt{180}}{2}$$

$$\left[\log_{\frac{a}{y}} \right] x^y + (\log_a a) x - \log 18 = 0 \rightarrow 0.13x^y + 0.18x - 0.18 = 0$$

$$3x^2 + 18x - 18 = 0$$

$$\log_V y = 2.18$$

$$\log y = 0.18$$

$$\log_{18} 10 = ?$$

$$\frac{\log 10}{\log 18} = \frac{\log_V y + 1}{2.18} = \frac{3}{2.18}$$

$$\log \frac{1}{18} = \frac{\log 1}{\log 18} = \frac{0}{\log 18} = 0$$

$$\frac{1}{\log 2} = \log_2 \frac{1}{2} = \log_2 \frac{1}{2}$$

$$\log_9 10 = ?$$

$$\log \frac{w}{r} = 1.19$$

$$\frac{\log 4}{1.510} = \log r + 1.914 = \frac{1.4}{1.8 + 1.9} = \frac{1.4}{K}$$

$$\log \Lambda^m = m \quad \rightarrow \quad \log \Lambda^9 + \log \Lambda^2 = \log \Lambda^m$$

$$\frac{1}{2} \log \Lambda^2 + \log \Lambda^2 = \log \Lambda^m$$

$$\frac{r}{r} m + y$$

$$\log \frac{1}{K} = ? \rightarrow \frac{\log \frac{1}{K}}{\log K} = \frac{\log K^{-1}}{\log K} = \frac{-1 \cdot \log K}{\log K} = -1$$

$$\boxed{x = \frac{1}{y}} \quad \checkmark \quad \begin{aligned} & x^2 + yx - y = 0 \\ & \hookrightarrow (x+y)(x-1) = 0 \end{aligned} \quad \leftarrow \boxed{yx^2 + yx - 1 = 0}$$

$$\left(\frac{r}{\Delta}\right)^{r_{x-1}} = \frac{\Delta^{r_x r}}{r^{r_x r}} \rightarrow \frac{r^{r_{x-1}}}{\Delta^{r_{x-1}}} = \frac{\Delta^{r_x r}}{r^{r_x r}} = \Delta^{r_x r + r_{x-1}} = r$$

$$\log \Lambda = \left(\frac{r}{\Delta}\right) \leftarrow \text{correct}$$

$$\log_r r = a$$

جواب ۲ = $\log^{100}$

$$\log \frac{b}{a} = \frac{r}{w}(1+q) \rightarrow \frac{1}{w} \log \frac{b}{a} = \frac{r}{w} + \frac{1}{w} \log \frac{b}{a}$$

$$\rightarrow \log \frac{b}{a} = \frac{r}{r} \rightarrow \frac{b}{a} = r \rightarrow b = r a$$

$$2a = \frac{b+c}{2}$$

$$Za = f a \times \log \frac{1}{K} + C$$

$$\log f = \log \left(\frac{1}{\sqrt{2\pi}} e^{-\frac{1}{2} \log \left(\frac{1}{x} \right)} \right) = -\frac{1}{2} \log \left(\frac{1}{x} \right) = \frac{1}{2} \log x$$

$$\frac{7.16}{1.0} = \log \frac{1.0}{f}$$

$$\frac{b}{fa} = \log \frac{1}{f} \rightarrow b = fa \times \log \frac{1}{f}$$

$$G \quad \frac{-b}{a} \rightarrow \frac{-14}{1} = -14$$

جواباً فرمے 2