

1- سار $\log_n^m = a$ است اگر $a > 0$ و b حاصل $[b]$ است

$$\frac{\log_n^{mn}}{\log_n^m} = \frac{(\log_n^m + \log_n^m + \log_n^m)}{(\log_n^m + \log_n^m)} = \frac{a+1}{a+1} = 1 + \frac{1}{a+1} = b$$

$$[b] = \left(1 + \frac{1}{a+1}\right) = \underline{\underline{1}}$$

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2- $y = \sqrt{\frac{n}{\log_n \frac{1}{r}}}$

$$\log_n \frac{1}{r} \rightarrow (n > 0) \rightarrow \log_n \frac{1}{r} > 0 \rightarrow (n < 1)$$

$$D_f = (0, 1)$$

$$\Rightarrow y = \frac{\log_2 (n^2 - n - 2)}{\sqrt{n^2 - 1} + 1}$$

$$n^2 - n - 2 > 0 \rightarrow (n - 2)(n + 1) > 0$$

$$\frac{-1}{+} \frac{2}{-} \frac{+}{+}$$

$$n^2 - 1 > 0 \rightarrow \frac{-1}{+} \frac{1}{-} \frac{+}{+}$$

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

$$\log_a^a + \log_a^{\sqrt{n}} = r \quad n = 9 \text{ و } a \text{ سار}$$

$$\frac{1}{\log_a^a} + \frac{1}{\log_a^{\sqrt{n}}} = r \Rightarrow r \log_a^a + \frac{1}{r \log_a^a} = r \rightarrow r t + \frac{1}{r t} = r \rightarrow r t^2$$

$$r t^2 - r t + 1 = 0 \rightarrow (r t - 1) \rightarrow t = \frac{1}{r} \rightarrow \log_a^a = \frac{1}{r} \rightarrow \underline{\underline{a = 3}}$$

$$\log_2^2 n^2 + \log_2^2 n - \log_2^2 n$$

$$\log_2^2 \approx 0.17$$

$$\log_2^2 \approx 0.17 - r$$

$$(\log_2^2 - \log_2^2) n^2 + (\log_2^2 + \log_2^2) n - (\log_2^2 + \log_2^2)$$

$$\log_2^2 = (1 - \log_2^2)$$

$$1 - 0.17 = 0.83 \rightarrow (0.17 - 0.17) n^2 + 0.17 n - (0.17 + 0.17) \rightarrow \frac{r}{10} n^2 + \frac{1}{10} n - 1.1$$

$$r n^2 + 1 n - 11 = 0 \rightarrow \frac{\sqrt{\Delta}}{2a} = \frac{\sqrt{48 - 4(-11)}}{2} = \frac{\sqrt{194}}{2} = \underline{\underline{\frac{14}{2}}}$$

$$\log_{10}^{10} = \frac{1}{\log_{10}^{10}} = (\log_{10}^V + \log_{10}^r)$$

$$\frac{\log_{10}^V}{\log_{10}^r} = r, 1 \rightarrow \log_{10}^V = r, 1 \rightarrow \log_{10}^V = \frac{1r}{10} \frac{\log_{10}^{10}}{\log_{10}^a} = \frac{1}{r} \rightarrow r \log_{10}^r = \log_{10}^a$$

$$\frac{1}{\frac{14}{10} + \frac{1}{10}} = \frac{1}{\frac{15}{10}} = \underline{\underline{\frac{10}{15}}}$$

$$\rightarrow \log_2^2 = \frac{1}{r} \quad r(1 - \log_2^2) = \log_2^2 \rightarrow \log_2^2 = \frac{r}{r}$$

$$\frac{\log a}{\log p} = \frac{1}{r}$$

$$e \log_4 10$$

$$\leftarrow \log_{\frac{1}{5}} 3 = 1,4$$

$$\log_{\mu} \omega = 1, \omega - 4$$

$$1.4 \log r = \log r \xrightarrow{\Delta \log} 1.4 \log r = r - r \cdot g \rightarrow 1.4 \log r = r \rightarrow \log r = \left(\frac{1}{1.4} \right)$$

$$P_{H_2} (1 - \log) = 1 \log$$

$$\log_{10} 9 = \frac{\log 9}{\log 10} = \frac{\log 3 + \log 3}{\log 3 + \log 3} \rightarrow \frac{\log 3 + 1.4 \log 3}{1 - \log 3 + 1.4 \log 3} \rightarrow \frac{5.4 \log 3}{1 + 0.4 \log 3} \approx \frac{5.4 \times 0.477}{1 + 0.191} = \frac{2.5878}{1.191} \approx 2.17$$

$$\frac{\frac{1^2}{1V}}{1 + \frac{1^2}{1V}} = \frac{1^2}{10}$$

$$\frac{1}{r} \log r^m \rightarrow \frac{\log r^m + \log r^m + \log r^m}{\log r} = r_m \rightarrow \frac{\log r^m}{\log r} + 1 = r_m \rightarrow \frac{\log r^m}{\log r} = \frac{r_m - 1}{r}$$

$$\frac{\log r + \log r + \log r}{r(\log r)} \rightarrow \underbrace{\frac{1}{r} + \frac{1}{r} + \frac{\log r}{r(\log r)}}_1 \rightarrow \frac{r_{m-1}}{\varepsilon} + 1 = \frac{r_m + r}{\varepsilon}$$

$$r_n^r = -(r_{n-1}) \rightarrow r_n^r + r_{n-1} = 0 \quad \log(4n+1) \quad \frac{\left(\frac{r}{10}\right)^{r_{n-1}}}{\left(\frac{r}{\omega}\right)^{r_{n-1}}} = \left(\frac{17\omega}{1}\right)^{r_n} \quad \omega^r - 1$$

$\hookrightarrow \left(\frac{1}{r}\right) \rightarrow \log\left(\frac{1}{r}\right) + 1 = \log_e = \frac{1}{r} \log_r r \rightarrow \left(\frac{1}{r}\right)$

$\log b = \frac{r}{r} (1+a) \log r = a \log r$
 $\frac{1}{r} \log b = \frac{r}{r} (1+a) \rightarrow \log b = (r \log r + \log r) \rightarrow \log b = r \log r = \log r^r$
 $b = r^r \rightarrow \log_{10} b = (r)$

$\log f = \log \left(\frac{1}{a + b \sqrt{r}} \right) = \log \frac{1}{a} - \log \frac{1}{a + b \sqrt{r}} = \log \frac{1}{a} - \log \left(1 + \frac{b \sqrt{r}}{a} \right)$
 $\log f = \log \frac{1}{a} - \log \left(1 + \frac{b \sqrt{r}}{a} \right) = \log \frac{1}{a} - \log \left(1 + \frac{b \sqrt{r}}{a} \right)$
 $\log f = \log \frac{1}{a} - \log \left(1 + \frac{b \sqrt{r}}{a} \right) = \log \frac{1}{a} - \log \left(1 + \frac{b \sqrt{r}}{a} \right)$

$$\frac{b+c}{r} = a \rightarrow b+c = \frac{p}{r} \log_{10}^{\Delta} \rightarrow b(1 - \log_{10}^{\Delta}) \rightarrow c = -b \log_{10}^{\Delta} \rightarrow \frac{c}{a} = \frac{-b \log_{10}^{\Delta}}{\frac{p}{r} \log_{10}^{\Delta}}$$