

عرفان حقیقی بازدهم، سر A

$$\log_n^m = a \Rightarrow n^a = m \quad (1)$$

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

$$[b] = \left[\frac{r(a+1)}{a+1} \right] \Rightarrow \left[\frac{ra+r-1}{a+1} \right] \Rightarrow \left[r - \frac{1}{a+1} \right]$$

(0.91)

$$[b] = 1$$

الف) $\log_{\frac{1}{r}}^n > 0 \Rightarrow n < 1 \quad II \quad I n) \quad (r)$
دامنه کارشتم

$$I \cap II = P = (0.91)$$

$$-) n^r - n - r > 0 \Rightarrow \frac{-1}{+} \frac{r}{-} \Rightarrow (-\infty, -1) \cup (r, +\infty)$$

$$n^r - 1 \geq 0 \Rightarrow n^r \geq 1 \Rightarrow n > 1 \cup n < -1$$

$$I \cap II \Rightarrow D = (-\infty, -1) \cup (r, +\infty)$$

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$$r \log_a^{\mu} + \log_a^{\mu} \Rightarrow \log_{\mu}^a + \log_a^{\mu} = r$$

$$\frac{1}{\log_a^{\mu}} + \log_a^{\mu} = r \xrightarrow{\log_a^{\mu} = A} \frac{1}{A} + A = r \Rightarrow$$

$$A = 1 \Rightarrow \log_a^{\mu} = 1 \Rightarrow a = \mu$$

$$\log_{1.}^a \Rightarrow \log_{1.}^a - \log_{1.}^{\mu} \Rightarrow \underbrace{\log_{1.}^a - \log_{1.}^{\mu}}_{\log_{1.}^a - \log_{1.}^{\mu}} \Rightarrow \log_{1.}^a - \log_{1.}^{\mu} = \log_{1.}^{\mu}$$

$$\log_{1.}^a = r \log_{1.}^{\mu} \Rightarrow r(\log_{1.}^{\mu}) \Rightarrow \log_{1.}^a$$

$$\log_{1.}^a = \underbrace{\log_{1.}^a + \log_{1.}^{\mu}}_{\log_{1.}^a - \log_{1.}^{\mu}} \Rightarrow \log_{1.}^a + \log_{1.}^{\mu} =$$

$$\log_{1.}^{\mu} + \log_{1.}^a = 1 \Rightarrow \log_{1.}^{\mu} + \log_{1.}^a = 1$$

$$n \log_{1.}^{\mu} = 1 \Rightarrow \log_{1.}^{\mu} = \frac{1}{n}$$

V

$$\frac{\log_a^1}{\log_a^1} \Rightarrow \frac{\log_a^1 + \log_a^1}{\log_a^1 + \log_a^1} \Rightarrow \frac{1+1}{1+\log_a^1} \quad / \omega$$

$$\log_a^1 \Rightarrow \frac{\log_a^1}{\log_a^1} \Rightarrow \frac{1,1}{1} = 1,1$$

$$\log_a^1 = 1,1 \quad \frac{1}{\log_a^1} = 1$$

$$\log_a^1 \Rightarrow \frac{1+1}{1+1,1} \Rightarrow \frac{1,1}{1,1}$$

$$\frac{\log_a^1}{\log_a^1} \Rightarrow \frac{\log_a^1 + \log_a^1}{\log_a^1 + \log_a^1} \Rightarrow \frac{1,1+1}{1,1+\log_a^1} \quad / \omega$$

$$\log_a^1 \Rightarrow \frac{\log_a^1}{\log_a^1} \Rightarrow \frac{1,1}{\frac{1}{1,1}} = 1,1$$

$$\log_a^1 = 1,1 \Rightarrow \frac{1}{\log_a^1} = \frac{1}{1,1}$$

$$\log_a^1 \Rightarrow \frac{1,1+1}{1,1+1,1} = 1,1$$

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Date :

$$\log_{\lambda}^{\lambda} = m \Rightarrow \frac{1}{r} \log_{\lambda}^{\lambda} = m \Rightarrow \log_{\lambda}^{\lambda} = m$$

$$\log_{\lambda}^{\lambda} + \log_{\lambda}^{\lambda} = m \Rightarrow 1 + r \log_{\lambda}^{\lambda} = m \Rightarrow$$

$$\log_{\lambda}^{\lambda} = \frac{m-1}{r}$$

$$\log_{\lambda}^{\lambda} \Rightarrow \frac{1}{r} \log_{\lambda}^{\lambda} \Rightarrow$$

$$\frac{1}{r} \left(\log_{\lambda}^{\lambda} + \log_{\lambda}^{\lambda} \right) \Rightarrow \frac{1}{r} \left(1 + \frac{m-1}{r} \right) \Rightarrow \frac{m}{r}$$

$$\left(\frac{r}{1.}\right)^{p_{n-1}} = \left(\frac{1 \cdot q}{1}\right)^{r_n} \Rightarrow \left(\frac{r}{\omega}\right)^{p_{n-1}} = \left(\frac{\omega}{r}\right)^{r_n} \quad \text{✓/✓}$$

$$p_{n-1} = -r_n \Rightarrow r_n + p_{n-1} = 0 \Rightarrow n \begin{cases} 1 \\ \frac{1}{r} \end{cases}$$

$$\log_{\lambda}^{-1} \quad \text{تعريف نسبه} \quad \log_{\lambda}^r \Rightarrow \frac{r}{r} \log_{\frac{r}{r}}^r = \frac{r}{r}$$

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$$\log_{\frac{1}{r}}^b = \frac{r}{r} (1+a) \quad \log_r^{\frac{1}{r}} = a \quad \Rightarrow \quad \frac{1}{r} \log_r^b = \frac{r}{r} (\log_r^r + \log_r^{\frac{1}{r}}) \quad (9)$$

$$\frac{1}{r} \log_r^b = \frac{1}{r} \log_r^{\frac{1}{r}} \quad \Rightarrow \quad b = \frac{1}{r}$$

$$\log(rb - 1) \Rightarrow \log 1 \Rightarrow r$$

/a/.

$$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\alpha + \beta}{\alpha\beta} \Rightarrow \frac{s}{p} = \frac{\lambda ab}{-fac} - \frac{r_b}{-c}$$

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