

عرفان حقیقی باز دهم بسر A

$$\log_n^m = a \Rightarrow n^a = m$$

(1) (2)

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

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

(0.91)

$$[b] = 1 \checkmark$$

الف) $\log_{\frac{1}{r}}^n > 0 \Rightarrow n < 1$ II $I n) \cdot$ (2)

دامد کارستم

$$I \cap II = \emptyset = (0.91) \checkmark$$

(2)

$$-) n^r - n - 2 > 0 \Rightarrow \frac{-1}{+} \frac{r}{-} \Rightarrow (-\infty, -1) \cup (2, +\infty)$$

$$n^r - 1 \geq 0 \Rightarrow n^r \geq 1 \Rightarrow n \geq 1 \cup n \leq -1$$

$$I \cap II \Rightarrow D = (-\infty, -1) \cup (2, +\infty) \checkmark$$

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

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

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

$$\log_a^{\mu} \Rightarrow \log_a^{\mu} - \log_a^{\mu} \Rightarrow \log_a^{\mu} - \log_a^{\mu} = \log_a^{\mu}$$

$$\log_a^{\mu} = r \log_a^{\mu} \Rightarrow r(1, r) \Rightarrow 1, 1$$

$$\log_a^{\mu} = \log_a^{\mu} + \log_a^{\mu} \Rightarrow \log_a^{\mu} + \log_a^{\mu} =$$

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

$$n \times \frac{1}{\mu} = \frac{1}{\mu} \Rightarrow \frac{1}{\mu} = \frac{1}{\mu} \checkmark$$

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$$\frac{\log_a^1}{\log_a^1} \Rightarrow \frac{\log_a^1 + \log_a^1}{\log_a^1 + \log_a^1} \Rightarrow \frac{1+1}{1+\log_a^1} \quad (1)$$

(2)

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

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

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

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

(2)

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

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

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

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

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

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

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

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

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

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

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

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

$$\frac{1}{\mu} \log_{\mu}^b = \frac{1}{\mu} \log_{\mu}^{\mu} \quad \Rightarrow \quad b = \mu$$

$$\log(\mu b - 1) \Rightarrow \log 1 \Rightarrow \mu \checkmark$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\alpha + \beta}{\alpha\beta} \Rightarrow \frac{S}{P} = \frac{\Lambda ab}{-r_{ac}} - \frac{r_b}{-c}$$

0.25 / 1.

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

$$a = \frac{b+c}{r} \rightarrow b = r_{a-c}$$

$$\frac{1}{n_1 + n_c} = \frac{1}{S} = \frac{r_a}{b} = \frac{r_a}{r_{a-c}} = \lg r = r \lg r \rightarrow \frac{r_a}{r_{a-c}} = \lg r$$

$$\text{نوعاً} \rightarrow \frac{r_{a-c}}{r_a} = \lg_r^{100} \rightarrow 1 - \lg_r^{100} = \frac{c}{r_a} \rightarrow r - \lg_r^{100} = \frac{c}{a}$$

$$\left(r^{-\frac{1}{a}}\right)^{\frac{c}{a}} = \left(r^{\frac{c}{a}}\right)^{\frac{1}{a}} = \left(r^{r - \lg_r^{100}}\right)^{\frac{1}{a}} = \left(\frac{r}{100}\right)^{\frac{1}{a}} \rightarrow \omega^{\frac{1}{a}} = \boxed{\sqrt[a]{\omega}}$$