

$$\lg_{mn}^{mn} = b$$

$$\downarrow 1 + \frac{\lg_{mn}^m}{A} = b \rightarrow 1 < \frac{1+A}{n} < 2 \rightarrow [b] = 1$$

$$\frac{1}{A} = \frac{\lg_{mn}^n}{\frac{1}{a}} + 1$$

$$\checkmark \frac{1}{A} = \frac{a+1}{a} \rightarrow A = \frac{a}{a+1} \xrightarrow{a>0} \frac{a+1-1}{a+1} = 1 - \frac{1}{a+1} > A \quad \begin{matrix} a+1 > 1 \\ 0 < \frac{1}{a+1} < 1 \end{matrix} \rightarrow n < 1 - \frac{1}{a+1} < 1$$

$$a) y = \sqrt{\frac{n-2}{\lg_{\frac{n}{2}}^n}}$$

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

$$1 \wedge 2, D_f = (0, 1)$$

$$n > 0$$

$$\lg_{\frac{n}{2}}^{(2^2-n-2)} \rightarrow \lg_{\frac{n}{2}}^{n^2-n-2} \geq 0 \rightarrow \begin{matrix} n^2-n-2 \geq 1 \\ n^2-n-2 \geq 0 \end{matrix}$$

$$\frac{1+\sqrt{13}}{2} \quad \frac{1-\sqrt{13}}{2}$$

$$\frac{-1/\sim}{\frac{1+\sqrt{13}}{2}} \quad \frac{1/\sim}{\frac{1-\sqrt{13}}{2}}$$

$$\sqrt{n^2-1} + 1 \quad n \geq 1 \rightarrow n \leq -1 \quad \textcircled{1}$$

$$1 \wedge 2, D_f = (-\infty, \frac{1-\sqrt{13}}{2}] \cup [\frac{1+\sqrt{13}}{2}, +\infty)$$

$$\sqrt[2]{\lg_{\frac{a}{n}}^a} + \lg_{\frac{a}{n}}^{\sqrt{n}} = \sqrt[2]{2}$$

$$\sqrt[2]{2} + \frac{1}{\sqrt[2]{2}} = \sqrt[2]{2} \rightarrow \sqrt[2]{2} = 1 \rightarrow \sqrt[2]{2} = \frac{1}{\sqrt[2]{2}} \rightarrow \lg_{\frac{a}{n}}^a = \frac{1}{\sqrt[2]{2}} \rightarrow a = \sqrt[2]{2}$$

$$\left(\lg_{\frac{a}{n}}^{\frac{a}{n}}\right)^n + (-8^9)n - \lg_{10}^a =$$

$$\begin{matrix} \lg_{\frac{a}{n}}^{\frac{a}{n}} \cdot 13 \\ 8^9 \cdot 14 \\ 8^3 \cdot 15 \end{matrix}$$

$$\checkmark (\lg_{\frac{a}{n}}^{\frac{a}{n}} - 8^3)n + 2 \lg_{\frac{a}{n}}^{\frac{a}{n}} - (8^3 + 8^9)n =$$

$$\checkmark \cdot 13n^2 + \cdot 14n - 1/1 =$$

$$\checkmark \frac{1}{n^2} + \frac{1}{n} - \frac{1}{1} = \frac{1}{n^2} + \frac{1}{n} - 1 = \frac{1+n^2-n^2}{n^2} = \frac{1}{n^2} \rightarrow \Delta n = \frac{1}{n^2}$$

$$\lg_{\frac{a}{n}}^{\frac{a}{n}} = \frac{\lg_{\frac{a}{n}}^{\frac{a}{n}}}{\lg_{\frac{a}{n}}^{\frac{a}{n}}} = \frac{1 + \lg_{\frac{a}{n}}^{\frac{a}{n}}}{1 + \lg_{\frac{a}{n}}^{\frac{a}{n}}} = \frac{1}{1} = \frac{1}{1}$$

$$\lg_{\frac{a}{n}}^{\frac{a}{n}} = 1/5 \rightarrow \lg_{\frac{a}{n}}^{\frac{a}{n}} = 2$$

$$\lg_{\frac{a}{n}}^{\frac{a}{n}} = 2/18$$

$$g_{1\omega}^q = \frac{g_{1\omega}^p}{g_{1\omega}^q} = \frac{1+g_{1\omega}^p}{1+g_{1\omega}^q} = \frac{\frac{1}{\omega}}{\frac{1}{\omega}} = 1$$

$$g_{1\omega}^p = 1/\omega$$

$$g_{1\omega}^p = 1/\omega \rightarrow g_{1\omega}^q = \frac{\omega}{1}$$

$$g_{1\omega}^m = m \rightarrow g_{1\omega}^p + g_{1\omega}^q = m$$

$$g_{1\omega}^p = m - \frac{1}{\omega}$$

$$\frac{1}{\omega} g_{1\omega}^p = \frac{m-1}{\omega} \rightarrow g_{1\omega}^p = \frac{m-1}{\omega}$$

$$g_{1\omega}^q = \frac{1}{\omega} (g_{1\omega}^p + g_{1\omega}^q) = \frac{m}{\omega} = \frac{m}{\omega} (m+1)$$

$$(1/\omega)^{n-1} = \left(\frac{1/\omega}{\omega}\right)^{n-1}$$

$$\downarrow (1/\omega)^{n-1} = \left(\frac{1}{\omega}\right)^{-n+1} \rightarrow n-1 = -n+1 \checkmark$$

$$n = 1 \checkmark$$

$$g_{1\omega}^{n+1} = \frac{1}{\omega} g_{1\omega}^n = \frac{1}{\omega} \cdot \frac{1}{\omega} = \frac{1}{\omega^2}$$

$$n+1 = 2 \rightarrow n = 1$$

$$g_{1\omega}^h = \frac{1}{\omega} (1+a) \rightarrow \frac{1}{\omega} g_{1\omega}^h = \frac{1}{\omega} (1+a)$$

$$g_{1\omega}^h = a$$

$$g_{1\omega}^h = g_{1\omega}^q \rightarrow h = \omega$$

$$g_{1\omega}^{h-1} = g_{1\omega}^h = \frac{1}{\omega}$$

$$\frac{1}{\omega} = g_{1\omega}^p - (a n^p + b n + \frac{1}{\omega} c) = 0$$

$$\frac{1}{\omega} = \frac{1}{\omega} = \frac{1}{\omega} = \frac{1}{\omega}$$

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$$b+c = \frac{1}{\omega} \rightarrow \frac{1}{\omega} = \frac{1}{\omega} = \frac{1}{\omega} = \frac{1}{\omega}$$

$$\left(\frac{1}{\omega}\right)^{\frac{1}{\omega}} = \left(\frac{1}{\omega}\right)^{\frac{1}{\omega}} = \frac{1}{\omega} = \frac{1}{\omega}$$