

1  $n^a = m$  (1)

2  $\log_{mn}^{m^n} = b \Rightarrow \log_{n^{a+1}}^{n^{a+1} \times n} = b \rightarrow \frac{a+1}{a+1} \log_n n = b$

3  $\hookrightarrow \log_{n^{a+1}}^{n^{a+1}} = [b]$  (5)

4  $[1 + \frac{a}{a+1}] = [b] = 1 + [\frac{a}{a+1}] = [b] \rightarrow 0 < \frac{a}{a+1} < 1$   
 5  $[b] = 1$

<p>8 <math>y = \sqrt{\frac{n}{\log \frac{n}{r}}}</math></p> <p>9 <math>n &gt; 0</math> (1)</p> <p>10 <math>\log \frac{n}{r} \neq 0 \Rightarrow n \neq 1</math></p> <p>11 <math>\frac{0}{+} \frac{1}{-} \rightarrow (0, 1) = D_f</math></p>	<p>8 <math>\log_{\frac{n}{r}}^{n^r - m - r}</math> (2)</p> <p>9 <math>\sqrt{n^r - 1 + 1}</math> <math>n^r - m^r &gt; 0</math></p> <p>10 <math>\sqrt{n^r - 1} \neq -1</math> <math>m^r - 1</math></p> <p>11 <math>n^r - 1 &gt; 0</math> <math>m^r - 1 &gt; 0</math></p> <p>12 <math>(n-1)(n+1) &gt; 0</math> <math>\frac{-1}{+} \frac{1}{-} \frac{r}{+}</math></p> <p>13 <math>D_f = (-\infty, -1) \cup (r, +\infty)</math></p>
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14  $r \log_n a + \log_a m^{\frac{1}{r}} \Rightarrow r \log_n a + \frac{1}{r} \log_a m \Rightarrow r \log_n a = r$  (3)

15  $\hookrightarrow r \log_n a = r$

16  $a = m^{\frac{1}{r}} \Rightarrow m < a, a < a^{\frac{1}{r}} \rightarrow \sqrt[r]{a} \rightarrow \frac{a}{a^{\frac{1}{r}}}$  (5)



$$(\log_8 - \log_8 r) m^r + (r \log_8 r) m - (\log_8 r + \log_8 d) = 0 \quad (5)$$

جميعاً  $\rightarrow m < 1$  و  $m < \frac{c}{a}$

$$\frac{c}{a} = \frac{-\log_8 r - \log_8 d}{\log_8 d - \log_8 r} = \frac{-0,8 - \log_8 1 + \log_8 r}{\log_8 1 - \log_8 r - 0,8} = \frac{-0,8 - 1 + 0,8r}{1 - 0,8r - 0,8} = \frac{-1,1}{r}$$

$\rightarrow m < 1 \rightarrow \left| \frac{-1,1}{r} - 1 \right| = \frac{1,1}{r}$

$$\log_8^r \times \log_8^u \Rightarrow 0,8 \times r, 1 \Rightarrow \log_8^u = 1,6$$

$$\log_{1,6}^1 = \frac{\log_8^1}{\log_8^{1,6}}$$

$$\log_{1,6}^1 = \log_8^r + \log_8^d$$

$$\frac{0,8 + 1}{\log_8^r + \log_8^d} \Rightarrow \frac{1,8}{0,8 + 1,6} \Rightarrow \frac{1,8}{2,4} = \frac{10}{19}$$

$$\log_8^m \times \log_8^r = 7 \log_8^d = 7,16$$

$$\log_{10}^7 = \frac{\log_8^{7,16}}{\log_8^{10}} = \frac{\log_8^r + \log_8^r}{\log_8^m + \log_8^d} = \frac{1 + 1,6}{1,6 + 1,6} = \frac{2,6}{3,2} = \frac{13}{16} \Rightarrow \frac{13}{16} = 0,8125$$

$$\log_{1,6}^{1,6} = \frac{\log_8^{1,6}}{\log_8^1} \Rightarrow \log_8^{1,6} = \log_8^r + \log_8^1 \Rightarrow \frac{r}{1,6} + \frac{1}{1,6} \log_8^r$$

$$\log_8^1 = m \rightarrow \log_8^a + \log_8^r = m \Rightarrow \frac{r}{1,6} \log_8^r + \frac{1}{1,6} \log_8^r = m$$

$$\log_8^r = \frac{r^{m-1}}{r} \quad \log_{1,6}^{1,6} = \frac{\frac{r}{1,6} + \frac{1}{1,6} \log_8^r}{\frac{r}{1,6}} \Rightarrow \frac{r + \frac{1}{r} \left( \frac{r^{m-1}}{r} \right)}{\frac{r}{1,6}} = \frac{1,6}{r} (m+1)$$

$$\left(\frac{r}{1}\right)^{m-1} = \left(\frac{d^r}{r^m}\right)^{m^r} = \left(\frac{r}{d}\right)^{r(m-1)} = \left(\frac{d}{r}\right)^{r m^r} \quad \text{①}$$

$$r(m-1) = r m^r$$

$$r m^r + r(m-1) = 0 \Rightarrow m^r + m - 1 = 0 \quad \text{عقود}$$

$$(m+1)(m-1)$$

$$\left[ m = \frac{r}{m}, \frac{1}{m} \right]$$

$$9(m+1) - 9 + 1 = 1$$

بالنسبة لـ

$$m = \frac{1}{r} \sqrt{\log r^r} \rightarrow \log r^r = \frac{r}{m} \log r^r$$

$$\log \left(\frac{r}{m}\right)$$

$$\frac{1}{m} \log \frac{b}{r} = \frac{r}{m}(a+1) \rightarrow \log \frac{b}{r} = r(a+1) \quad \text{②}$$

$$r^{a+1} = b \quad (r^a)^r = r^a = b^r \rightarrow b = r^y$$

$$\log(r^y - 1) = \log(1 \dots) = y$$

$$S = 1 + \frac{b}{r^a} = \log \epsilon \rightarrow \frac{a}{b} = \frac{\log \epsilon}{\epsilon} = \frac{r \log r}{r} \Rightarrow \log r \quad \text{③}$$

$$r^a = b + c \xrightarrow{\frac{r^a}{b}} \frac{r^a}{b} = 1 + \frac{c}{b} \rightarrow \frac{a}{b} = \frac{\log r}{r} \rightarrow r \left(\frac{\log r}{r}\right) = 1 + \frac{c}{b}$$

$$\frac{c}{b} = -1 + \log r \xrightarrow{\frac{c}{a}} \frac{c}{a} = \frac{-1 + \log r}{\frac{\log r}{r}} \Rightarrow \frac{c}{a} = \frac{\log r - \log 1}{\frac{1}{r} \log r}$$

$$\frac{\log \frac{r}{1}}{\frac{1}{r} \log r} = \frac{\log \frac{1}{\delta}}{\frac{1}{r} \log r} \rightarrow \log \frac{1}{\delta} = \left(\frac{1}{r}\right)^{\frac{c}{a}} = \left(\frac{1}{\delta}\right)^{\log r^{\frac{1}{r}}}$$

$$\log \left(\frac{1}{\delta}\right)^{\frac{1}{r}} = \sqrt[r]{\delta}$$