

٢٠

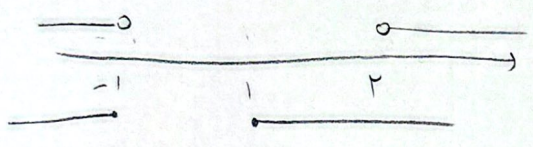
$\log_n^m = a \quad m = n^a$

$\log_n^{n^a+1} = b \quad b = \frac{a+1-1}{a+1} = \frac{a}{a+1} = 1 - \frac{1}{a+1} < 1$   
 $b = \frac{a+1}{a+1} \log_n^n \quad [b] = 1$

النت  $\sqrt{\frac{n}{\log_n \frac{1}{p}}}$   $n > 0$   $\frac{(n)^{1/p}}{\log_n \frac{1}{p}}$   $n > 1$   
 $n < 1$

$D = (0, 1)$

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



$D = (-\infty, -1) \cup (2, \infty)$

$\log_3^3 + \log_3^3 = 2 \quad t + \frac{1}{t} = 2 \rightarrow t = 1 \quad \log_3^3 = 1 \quad a = 3$

$(\log_3^3 - \log_3^3)n^2 + (\log_3^3)n - \log_3^3 = 0 \rightarrow 3n^2 + 3n - 1 = 0$

$\log_3^3 + \log_3^3 = \log_3^3 \rightarrow \log_3^3 = 1$   
 $\Delta = \sqrt{9 + 12} = \sqrt{21} = \frac{\sqrt{4 \cdot 5 + 12}}{3} = \frac{13}{3}$

$\log_3^3 \times \log_3^3 = \log_3^3 \rightarrow a \times 3 = 1 \rightarrow a = \frac{1}{3}$

$\log_3^3 + \log_3^3 = \log_3^3 = 1, a = 1, 9$

$\log_3^3 = \frac{\log_3^3}{\log_3^3} = \frac{1}{1, 9} = \frac{1}{19}$

$\log_3^3 \times \log_3^3 = \log_3^3 = 1, 6 \times \frac{1}{3} = 2, 4$   
 $= \frac{1, 6 + 1}{1, 6 + 1, 6} = \frac{2, 6}{3} = \frac{2, 6}{3} = \frac{13}{20}$

$$1. \log_r r = r^m \quad 2. \log_r r + \log_r r = r^m \quad 3. \log_r r = \frac{r^m - 1}{r} \quad - \checkmark$$

$$1. \log_r r = \frac{1}{r} \log_r r = \frac{1}{r} (\log_r r + \log_r r) = \frac{1}{r} (r + \frac{r^m - 1}{r}) = \frac{r^m + r}{r} \quad (9)$$

$$\left(\frac{r}{r}\right)^{1-r^m} = \left(\frac{r}{r}\right)^{r^m r} \quad r^m = 1 - r^m \quad r^m + r^m - 1 = 0 \quad - \checkmark$$

$$n^r + r^n = r^2 \quad (n+r)(n-1) = \dots \rightarrow n = \frac{1}{r} \quad \checkmark$$

(9)

$$1. \log_r r \times \frac{1}{r+1} = 1. \log_r r = \frac{r}{r}$$

$$1. \log_r b = \frac{r}{r} (\log_r r + \log_r r) = \frac{r}{r} \log_r r = \log_r r \rightarrow b = r^y \quad - 9$$

(9)

$$1. \log_r r \times r^y - 1 = 1. \log_r r = r$$

$$s = \frac{-b}{-ca} = \frac{b}{ca} \rightarrow \frac{ca}{b} = \log_r r = 2. \log_r r \quad \frac{ra}{b} = 1. \log_r r \quad (-1)$$

$$a = \frac{b+c}{r} \quad ra = b+c = b \log_r r \quad c = b(\log_r r - 1) \quad (9)$$

$a = \frac{b \log_r r}{r}$

$$\frac{c}{a} = \frac{r(\log_r r - 1)}{1. \log_r r} = r \times \frac{1. \log_r r}{1. \log_r r} = 2. \log_r r$$

$$\left(\frac{1}{r}\right)^{\frac{c}{a}} = \left(r - \frac{1}{r}\right)^{2. \log_r r} = \left(\frac{r-1}{r}\right)^{2. \log_r r} = (r-1)^{2. \log_r r} = r^{-\frac{1}{r}} = \left(\frac{1}{r}\right)^{\frac{1}{r}} = r^{\frac{1}{r}}$$