

$f(x) = \mu^{Ax+B}$  ,  $y = x^2$  طول نقطه تقاطع

$9 \rightarrow 1, 1 \rightarrow 1, 9 \rightarrow 1$

$\begin{cases} A+B = 0 \\ \mu A + B = 1 \end{cases} \rightarrow 2A = 1 \rightarrow A = \frac{1}{2} \rightarrow A+B = 0 \rightarrow B = -\frac{1}{2}$

عرض تقاطع  $= \frac{1}{\mu}$

$\log_{\mu}(x^2 + \omega) = x + \mu \rightarrow x^2 + 10 = 2x + 1$

$(x^2 - 2)(x^2 - 9) = 0 \rightarrow x_1 = \log_{\mu} 3, x_2 = \log_{\mu} 9$

$\log_{\mu} 3 + \log_{\mu} 9 = \log_{\mu} 27$

$(\log_{\mu} 3)^2 + \log_{\mu} 27 = \log_{\mu} 27 + \log_{\mu} 3 = \log_{\mu} 81 = 4$

$(1 + \log_{\mu} 3)(2 + \log_{\mu} 3) = (2 - \log_{\mu} 3)(2 + \log_{\mu} 3)$

$1 - \log_{\mu} 3 = 2 - (\log_{\mu} 3)^2$

$\log(a^2 - 2a + 1) + 3 \log(1-a) = 0$

$\log(a-1)^2 (1-a)^3 = 0 \rightarrow \log(1-a)^5 = 0 \rightarrow 1 = (1-a)^5$

$1 = 1-a \rightarrow a = 0 \rightarrow \log_{\mu}^{-1} = 2$

$$\log_r (x^r + r x + r) + \log_r (x - r) = \mu \log_r \frac{x}{\sqrt{r}} = \omega \quad \text{--- 1}$$

$$\log_r x^{\mu} = \mu \rightarrow x = r = 1 \rightarrow x = r \sqrt{r} \rightarrow \log_r \frac{r \sqrt{r}}{\sqrt{r}} = \mu \quad \text{--- 2}$$

$$\log (r - x) - \log \frac{1}{(x - r)^r} = \mu \quad \text{--- 4}$$

$$\log \frac{1}{(r - x)^r} = \log (r - x)^{-r} = -r \log (r - x) \quad \text{--- 5}$$

$$\mu \log r^{-x} = \mu \rightarrow r - x = 1 \rightarrow x = r - 1 \quad \log_r^{-(-1)} = \mu \quad \text{--- 4}$$

$$\mu x^r = \mu \rightarrow x = 1 \rightarrow \mu^r x = \mu^r \log_4 x = \log_4 \sqrt{4} = \frac{1}{r} \quad \text{--- 2}$$

$$x^r - r = \epsilon x \rightarrow x^r = \epsilon x + \epsilon - 4 = 0 \rightarrow (x - r)^r = 4 \quad \text{--- 5}$$

$$\log_r^r = \frac{\omega}{\Lambda} \quad \log_r^{\Lambda} = \frac{\mu \log_r^r}{\log_r^r + \mu \log_r^r} = \frac{\mu(\omega \Lambda)}{\omega \Lambda + \mu(\Lambda \omega)} = \frac{\omega}{\omega + \mu} \quad \text{--- 1}$$

$$\frac{\log_r^r}{\log_r^r} = \frac{\omega}{\Lambda} \rightarrow \log_r^r = \omega \Lambda$$

$$\log_r^r = \omega \Lambda \quad \log_r^r = \frac{\log_r^r + \log_r^r}{r \log_r^r + \log_r^r} = \frac{\omega \Lambda + \Lambda \omega}{1 \cdot \omega + \Lambda \omega} = \frac{\omega \Lambda}{\omega + \Lambda} \quad \text{--- 4}$$

$$\frac{\log_r^r}{r \log_r^r} = \frac{\mu}{\omega} \rightarrow \frac{\log_r^r}{\log_r^r} = \frac{\Lambda}{\omega} \rightarrow \log_r^r = \Lambda \omega, \log_r^r = \omega \Lambda$$

$$(a \log_r^r) x^r + a x + b \log_r^r = 0 \quad (\sqrt{r})^{\frac{b}{a}} = \quad \text{--- 10}$$

$$x = -1 \rightarrow a \log_r^r - a + b \log_r^r = 0 \rightarrow (a + b) \log_r^r = a \rightarrow \log_r^r = \frac{a}{a + b}$$

$$\frac{1}{\log_r^r} = \frac{a}{a + b} \rightarrow \log_r^r = \frac{a + b}{a} = 1 + \frac{b}{a} \rightarrow \log_r^r = \frac{b}{a} \rightarrow \frac{b}{a} = \log_r^r \omega$$

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| 08 | M | T | W | T | F | S | S | M | T | W  | T  | F  | S  | S  | M  | T  | W  | T  | F  | S  | S  | M  | T  | W  | T  | F  | S  | S  | M  | T  | W  |
|    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

$$(\sqrt{r})^{\log_r^r} = \omega \quad \log_r^r = \sqrt{\omega} \quad \text{--- 5}$$

$$\log_r^r$$