

٢٤ صيف

المحور الثاني

$$f(x) = r^{Ax+B} \quad y = x^c \rightarrow x=1 \rightarrow r^{A+B} = 1 \rightarrow A+B=0 \quad .1$$

$$\hookrightarrow x=r \rightarrow r^{rA+B} = r \rightarrow rA+B=1$$

$$r^{Ax+B} \rightarrow r^{x-1} \quad \text{تفقدنا متر باي}$$

$x=0$

$r^{-1} = \frac{1}{r}$

$A=1 \quad B=-1$

$$\log_r(\epsilon^n + 12) = n + r \quad r^{(n+r)} = \epsilon^n = 12 \quad .2$$

$$r^n \times r^r = (r^n)^r + 12$$

$$\hookrightarrow r^n = t \quad \left. \begin{array}{l} \\ \end{array} \right\} t^r - 12t + 12 = 0$$

$$\left\{ \begin{array}{l} r^n = r \quad \log_r r = n = 1 \leftarrow (t-1)(t-r) = 0 \\ r^n = 12 \quad n = \log_r 12 \quad t=12 \leftarrow \end{array} \right.$$

$$\log_r 12 + \log_r r = \log_r 12$$

$$(\log_r r)^r + \log_r r \times \log_r r \rightarrow \log_r r \times (r)^r = r + \log_r r \quad .3$$

$$\log_r r \times r = \log_r r + \log_r r = 1 + \log_r r - \log_r r = r - \log_r r$$

$$(\log_r r)^r + (r - \log_r r) + (r + \log_r r) + (\log_r r)^r + \epsilon - (\log_r r)^r = \epsilon$$

$$\underbrace{\hspace{10em}}_{r - (\log_r r)^r}$$

$$\log_r n^c - r n + 1 + r \log_r(1-n) = d \quad .4$$

$$n^r - r n + 1 = (n-1)^r = (1-n)^r \rightarrow r \log_r(1-n) + r \log_r(1-n) = d$$

$$\hookrightarrow d \log_r(1-n) = d \rightarrow \log_r(1-n) = 1 \quad 1-n=10 \quad n=-9$$

$$\log_r(1-n) \rightarrow \log_r 10 = r$$

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(10, 201

$$\log_r (x^r + rx + \varepsilon) + \log_r (x-r) = r \rightarrow \log_r (x^r + rx + \varepsilon)(x-r) = r \quad .5$$

$$\log_r x^{r-1} = r \rightarrow x^{r-1} = r \rightarrow x^r = rx \quad x = r^{\frac{r}{r-1}}$$

$$\log_r x \rightarrow \log_r r^{\frac{r}{r-1}} \rightarrow \varepsilon \log_r r = \varepsilon$$

$$\log_r (r-n) - \log_r \frac{1}{(n-r)^r} = r \quad .6$$

$$\log_r (r-n) - \log_r (r-n)^r = r$$

$$\log_r (r-n) + r \log_r (r-n) = r \quad r \log_r (r-n) = r \quad \log_r (r-n) = 1$$

$$\log_r x = \log_r r^{\frac{r}{r-1}} = \frac{r}{r-1} \log_r r = \frac{r}{r-1} \quad n = -1$$

$$r(n^r - r) = 1 \rightarrow r(n^r - r) = r \varepsilon n \quad n^r - r = \varepsilon n \quad .7$$

$$\rightarrow n^r - \varepsilon n - r = 0 \rightarrow n = r + \sqrt{4}$$

$$\log_r (n-r) \rightarrow n = r + \sqrt{4} \rightarrow \log_r \frac{r + \sqrt{4} - r}{4} = \log_r \frac{\sqrt{4}}{4} = \frac{1}{r}$$

$$\rightarrow n = r - \sqrt{4} \rightarrow \log_r \frac{-\sqrt{4}}{4}$$

$$\log_r r = \frac{r}{r} \quad \log_r \frac{1}{r} = \log_r r^{-1} = -1 \log_r r \rightarrow \frac{\log_r r}{\log_r \frac{1}{r}} = \quad .8$$

$$\frac{\log_r r}{\log_r r^r + \log_r r} = \frac{\frac{r}{r}}{r + \frac{r}{r}} = \frac{\frac{r}{r}}{\frac{r^2 + 1}{r}} = \frac{r}{r^2 + 1}$$

$$\log_r r = \frac{r}{r} \rightarrow \frac{1}{r} \log_r r = \frac{\varepsilon}{r} \quad \log_r r = \frac{r}{r} \quad .9$$

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

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$$(a \log^r) x^r + a n + b \log^r = 0 \xrightarrow{x=-1} (a \log^r) - a + b \log^r = 0 \quad .10$$

$$b \log^r = a - a \log^r = b \log^r = a(1 - \log^r)$$

$$\frac{b}{a} = \frac{1 - \log^r}{\log^r} \rightarrow \frac{\log^d}{\log^r} = \log^d$$

$$\rightarrow (\sqrt{d}) \frac{b}{a} = r \frac{1}{r} \times \log^d = r \frac{\log^d}{r} = r \cdot \log^{\frac{d}{r}} = \sqrt{d} \log^{\frac{d}{r}} = \sqrt{d}$$

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