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موضوع: حساب التفاضل والتكامل

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$\mu^{Ax+B}, x \in \mathbb{R}$

$\mu^{A+B} = 1 \Rightarrow A+B=0$

$A=1$   
 $B=-1$

$\mu^{kA+B} = 9 \Rightarrow kA+B=2$

$Ax+B$

$\mu \Rightarrow \mu^{x-1} \xrightarrow[x=0]{\text{L'Hopital}} \mu^{-1} = \left(\frac{1}{\mu}\right)$

$x^{x+1} = y \xrightarrow{t=x} t^t - \ln t + 1 = 0$

$t = \alpha \Rightarrow y^\alpha = \alpha \Rightarrow x = \log_\alpha y$   
 $t = \beta \Rightarrow y^\beta = \beta \Rightarrow x = \log_\beta y$   
 $\Rightarrow \log_\alpha y + \log_\beta y = \log_\alpha \beta$

$(\log_{r_1} r_2)^r + \log_{r_1} (r_2^r) = r \log_{r_1} r_2$   
 $\log_{r_1} r_2 = 1 - \log_{r_1} r_2$

$(\log_{r_1}^r + \log_{r_1}^r)(\log_{r_1}^r + r \log_{r_1}^r)$

$t^r + \frac{r-t}{(1-t)+1} (t+r) =$   
 $t^r + r - t^r = r$

$x \log^2 x = x \log x = a \Rightarrow \log^2 x - \log x = \frac{a}{x}$

$\log^{-1-a} x = \frac{1}{x^a}$

$x = -9$

$\log^2 x - \log x = 1$   
 $1 - x = 10$

$a \log r^a = a + b \log r \Rightarrow (a+b) \log r = a$

$10^a = r^{a+b}$   
 $r^a \cdot 10^a = r^a \cdot r^b$   
 $10^a = r^b \Rightarrow r^{\frac{b}{a}} = 10$

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$r^{\frac{b}{a}} = (r^{\frac{1}{a}})^b = \sqrt[a]{a}$

$$\log_r x^{\frac{1}{r}} = \frac{1}{r} \log_r x \quad x^{\frac{1}{r}} = \frac{1}{r} \quad x = \frac{1}{r^r} \quad (d)$$

$$\log_r r^{\frac{1}{r}} = \frac{\frac{1}{r}}{\frac{1}{r}} = 1 \quad (f) \quad (g)$$

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

$$\log(r-x)^r = r \Rightarrow r-x = 10 \Rightarrow x = -1 \quad (5)$$

$$\log \frac{-1-1}{\sqrt{r}} = \frac{r}{\frac{1}{r}} = (4)$$

$$x^r - r = rx \Rightarrow (x-r)^r - r - r = 0 \quad (v)$$

$$x-r = \sqrt{4} \quad \log \frac{\sqrt{4}}{4} = \left(\frac{1}{2}\right) \quad (5)$$

$$\log_r r^{\frac{1}{r}} = \frac{1}{r} \log_r r = \frac{1}{r} \frac{1}{\log_r r} = \frac{1}{r \log_r r} = \frac{1}{\log_r r + r \log_r r} = (A) \quad (5)$$

$$\frac{r}{1+r, r} = \frac{r_0}{r} = \left(\frac{5}{v}\right)$$

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

$$\frac{1}{\log_r r} = \frac{1}{1 + \log_r r} = \frac{1}{1 + \frac{1}{\log_r r}} = \frac{1}{1 + \frac{1}{1/2}} = \frac{1}{1 + 2} = \frac{1}{3} \quad (9) \quad (5)$$

$$\log_r r = \frac{1}{r} \log_r r = 0.18 \Rightarrow \log_r r = 1/4$$

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

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ما صغیر ی قیلر

$$\left(\frac{1}{r}\right)$$