

صفحة: _____
 تاريخ: _____
 اسم الطالب: _____

$$f(x) = x^{A+B} \Rightarrow y = x^C \Rightarrow (x^A)^B = x^{AB} \Rightarrow A+B = C$$

$$y = 1 \Rightarrow x^A + x^B = 1 \Rightarrow x^A + x^B = 0 \Rightarrow A = -B$$

$$f(x) = x^{A-1} \Rightarrow x^A + x^B = x \Rightarrow x^A + x^B = x^1 \Rightarrow A = 1, B = 0$$

$$\log(x^{A+B}) = A + B \Rightarrow \log(x^A \cdot x^B) = A + B \Rightarrow \log x^A + \log x^B = A + B$$

$$\log(x^A)^B = B \log x^A = B(A \log x) = AB \log x$$

$$\log(x^A)^{B^C} = C \log(x^A)^B = C(B \log x^A) = CB \log x^A = CB(A \log x) = CAB \log x$$

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Subject

Date : Year

Month

Day

$$r^{m-r} = N^m \quad \log_4^{(m-r)} = ? \quad (14)$$

$$r^{m-r} = r^m \epsilon^m \rightarrow r^r - (m-r) = 0 \rightarrow (m-r)^r - 1 = 0 \rightarrow (m-r) = r^r$$

$$\rightarrow \log_4^{(m-r)} = \log_4^{r^r} = \frac{1}{r}$$

$$\log_4^r = \frac{\omega}{N} \quad \log_{1/N}^r = ? = \log_{r^r}^r = r \log_{r^r}^r = \frac{r}{\log_4^{1/N}} \quad (15)$$

$$= \frac{r}{\log_4^r + \log_4^r} = \frac{r}{1+r \log_4^r} = \frac{r}{1+r \frac{\omega}{r}} = \frac{r}{1+\frac{\omega}{r}} = \frac{r \cdot \omega}{r + \omega} = \left(\frac{\omega}{r}\right)$$

$$\log_4^r = -0.1N \quad \log_{1/r}^r = ? = \frac{\log_4^r}{\log_4^{1/r}} = \frac{1 + \log_4^r}{\log_4^r + 1} = \frac{1 + \frac{\omega}{r}}{r + \frac{\omega}{r}} \quad (16)$$

$$\Rightarrow \frac{1+r}{1N}$$

$$(a \log r)^r + a^m + b \log r = 0 \quad m = -1 \quad (\sqrt{r})^a = ? \quad (17)$$

$$a \log r - a + b \log r = 0 \quad \frac{a}{a}, \log r - 1 + \frac{b}{a} \log r = 0$$

$$\log r^{\frac{b}{a}} = -\log r + \log 1 = \log \frac{1}{r} \times 1 = \log \frac{1}{r}$$

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