

$\frac{1}{x} \frac{1}{x^3}$

$$y = x^r$$

| | | |
|-----|-----|-----|
| x | 1 | x |
| B | 1 | q |

$$f(x) = x^{Ax+B}$$

$$1 = x^{A+B}$$

$$A+B=0$$

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$$q = x^{A+B}$$

$$x^A + B = x$$

$$x^A = x$$

$$A=1$$

$$B=-1$$

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$$f(0) = x^B = \frac{1}{x}$$

$$\log(x^k + 10)$$

$$r = k + r$$

$$r^{k+r} = x^r r^k + 10$$

$$x^k = t$$

$$\Lambda t^r = t^r + 10$$

$$\log \frac{\delta}{r} + \log \frac{r}{r} = \log \frac{\delta}{r}$$

$$\left(\log \frac{r}{r_1} \right)^r + \log \frac{r^k}{r_1} \log \frac{r^k}{r_1} = ?$$

$$\log \frac{r}{r_1} = a \quad \frac{a+r(1-a)}{r-a} \quad \frac{r a + r(1-a)}{a+r}$$

$$\log \frac{r}{r_1} = 1-a$$

$$a^r + (r-a)(a+r) = \text{ⓔ}$$

$$\log \frac{x^k + r k + r}{r} + \log \frac{(k-r)}{r} = k$$

$$\log (x^k + r k + r)(k-r) = k$$

$$(x^k + r k + r)(k-r) = 1$$

$$k^k - 1 = 1 \quad k^k = 14 \quad k = \sqrt[3]{14}$$

$$\log \frac{r}{\sqrt[3]{14}} = \log \frac{14}{r} = \text{ⓔ}$$

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$$t^r - \Lambda t + 10 = 0$$

1, r, 5

$$(t-a)(t-r) = 0$$

$$t=a \quad r^k = a \quad k = \log_a r$$

$$t=r \quad r^k = r \quad k = \log_r r$$

Ⓜ

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ⓐ

5

$$\log (x-1)^r + r \log (1-x) = 0$$

$$(x-1)^r = (1-x)^r$$

(K)

$$\log (1-x)^r = 0$$

$$r = 0$$

$$\log (1-x)^r + r \log (1-x) = 0$$

(G)

$$r \log (1-x) + r \log (1-x) = 0$$

$$2r \log (1-x) = 0$$

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$$1 - x = 1 - x$$

$$x = -4$$

$$\log^{-x} = \log^4$$

$$r = 1$$

$$r - k = t$$

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

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

$$\log t^{-r} = r$$

$$\log t^{-r} = \log t^r = r$$

$$t^r = 10^r \Rightarrow t = 10$$

$$r - k = 10 \Rightarrow$$

$$\boxed{k = \sqrt{-11}}$$

نویسنده ارجمند با عرض سپاس

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$$\sqrt[2]{\frac{1}{2}} = \frac{1}{\sqrt{2}}$$

$$\log_{\mu}^{k-2} = ?$$

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(V)

$$\mu^{k-2} = 1^k = \mu^k$$

$$\log_{\mu}^{k+\sqrt{4}-2} = \log_{\mu}^{\sqrt{4}} = \left[\frac{1}{\mu} \right]$$

$$k^2 - 2 - k = 0$$

$$D = 4 + 4 = 28$$

$$k_1, k_2 = \frac{2 \pm \sqrt{28}}{2}$$

$$k_1 = 2 + \sqrt{7}, k_2 = 2 - \sqrt{7}$$

(V)

$$\log_{\mu}^{k-2} < 0$$

$$\log_{\mu}^k = \frac{a}{\mu}$$

$$\log_{\mu}^1 = ?$$

$$\frac{\log_{\mu}^1}{\log_{\mu}^k} = \frac{k \log_{\mu}^k}{k \log_{\mu}^k + \log_{\mu}^k} = \frac{1}{2}$$

(1)

$$\log_{\mu}^k + \log_{\mu}^k$$

$$\frac{\frac{1}{\mu}}{k + \frac{1}{\mu}} = \frac{\frac{1}{\mu}}{\frac{k\mu + 1}{\mu}} = \frac{1}{k\mu + 1} = \frac{1}{2}$$

$$= \left[\frac{a}{\mu} \right]$$

$$\log_{\mu}^k = 0, 1 = \frac{k}{\mu}$$

$$\log_{\mu}^k = ?$$

(5)

(4)

$$\frac{\log_{\mu}^k}{\log_{\mu}^k} = \frac{\log_{\mu}^k + \log_{\mu}^k}{\log_{\mu}^k + \log_{\mu}^k} = \frac{\frac{1}{\mu} + 0, 1}{0, 1 + 1} = \frac{1, \mu}{1, 1} = \left[\frac{1, \mu}{1, 1} \right]$$

$$(a \log r) u^r + ar + b \log r = 0$$

$$\downarrow u = -1$$

$$a \log r - a + b \log r = 0$$

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

$$\div a \int \left(1 + \frac{b}{a}\right) \log r = a$$

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

$$\left(r^{\frac{1}{r}}\right) \cdot \frac{1}{\log r}^{-1}$$

$$= \frac{r^{\frac{1}{r \log r}}}{\sqrt{r}}$$

$$r^{\frac{1}{\log r}} = 10$$

$$\Rightarrow r^{\frac{1}{r \log r}} = \sqrt{10}$$

$$\left(\sqrt{r}\right) \frac{b}{a} = \sqrt{10}$$

نوٹس اوریجی

Bar Mearil