

پاران شرفی سری لیست و سوم

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$$\log_n^m = a$$

$$\log_{mn}^{mn} = b$$

$$a > 0 \quad [b] = ?$$

سوال ۱۰

$$n^a = m$$

$$\log_{mn}^{mn} \text{ و } \log_{mn}^m = b$$

$$\frac{1}{\log_n^m} = b - 1$$

$$[b] = 1$$

$$\log_n^m + \log_m^n = b$$

$$\frac{1}{a} > 0 \quad - \frac{1}{b} < 1$$

$$[b] = 1$$

$$y = \sqrt{\frac{n}{\log_n \frac{1}{r}}}$$

$$\frac{n}{\log_n \frac{1}{r}} > 0 \rightarrow n > 0$$

$$\frac{1}{r} > 0 \rightarrow r > 0$$

$$n = (0, 1)$$

$$\log_n \frac{1}{r} \neq 0 \rightarrow \frac{1}{r} \neq 1 \rightarrow r \neq 1$$

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

$$n = (0, 1)$$

$$y = \frac{\log(x^2 - x - 1)}{x}$$

$$x^2 - x - 1 > 0$$

$$\sqrt{x^2 - 1} \neq 0$$

$$(x - 2)(x + 1) > 0 \rightarrow$$

$$\frac{1}{x} > 0$$

$$x < -1$$

$$x^2 - 1 > 0$$

$$x^2 > 1 \rightarrow x < -1$$

$$x > 1$$

$$D = (-\infty, -1) \cup (1, +\infty)$$

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$$r \log_n^a + \log_a^{\sqrt{n}} = 2 \rightarrow n = 9$$

سوال ۱۳

$$r \log_n^a + \log_a^r = 2 \rightarrow \frac{r}{r} \log_n^a + \log_a^r = 2 \quad \log_n^a = t$$

$$\log_n^a + \frac{1}{\log_n^a} = 2$$

$$[5]$$

$$t + \frac{1}{t} = 2 \rightarrow t^2 + 1 - 2t = 0$$

$$(t - 1)^2 = 0 \rightarrow t = 1 \rightarrow \log_n^a = 1 \rightarrow a = n$$

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$$\log_2 2 \approx 0.3 \quad \log_2 3 \approx 0.4 \quad (\log_2 3)^2 + (\log_2 2) - \log_2 3 = 0$$

سوال ۲۱

$$(\log_2 3)^2 + (\log_2 2) - \log_2 3 = 0 \rightarrow (\log_2 3)^2 + 1 - \log_2 3 = 0 \rightarrow \log_2 3 = 1 \rightarrow 3 = 2$$

$$\log_2 9 = \log_2 3^2 = 2 \times 0.4 = 0.8$$

$$\log_2 10 = \log_2 5 + \log_2 2 = \log_2 5 + 1$$

$$0.8 \times 2 + 0.1 \times 1 - 1.1 = 0$$

$$\frac{\Delta}{a} = \frac{(\frac{1}{10})^2 - 4x - 1.1 + \frac{3}{10}}{a} = \frac{44}{100} + \frac{132}{100} = \frac{176}{100}$$

$$\frac{\Delta}{a} = \frac{\sqrt{176}}{100} = \frac{13}{10} = \frac{13}{10}$$

$$\log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 0, \quad \log_{2^r} 2^r = ?$$

سوال 5

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

$$\log_{2^r} 2^r = 0, \quad \frac{1}{\log_{2^r} 2^r} = \frac{1}{0} \rightarrow \log_{2^r} 2^r = 2$$

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

$$\log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = ?$$

سوال 6

$$\frac{\log_{2^r} 2^r}{\log_{2^r} 2^r} = 1, \quad \frac{\log_{2^r} 2^r}{\log_{2^r} 2^r} = 1, \quad \frac{1}{\log_{2^r} 2^r} = \log_{2^r} 2^r - \log_{2^r} 2^r \rightarrow 1, \quad \log_{2^r} 2^r = \log_{2^r} 2^r$$

$$\frac{\log_{2^r} 2^r - \log_{2^r} 2^r}{\log_{2^r} 2^r - \log_{2^r} 2^r} = 1, \quad 1 - \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r - 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1$$

$$1 + 4\log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1$$

$$1 = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1$$

$$\frac{\log_{2^r} 2^r}{\log_{2^r} 2^r} = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1$$

$$\log_{2^r} 2^r = \frac{\log_{2^r} 2^r}{\log_{2^r} 2^r} = \frac{1}{1} = 1, \quad \log_{2^r} 2^r = \frac{1}{1} = 1, \quad \log_{2^r} 2^r = \frac{1}{1} = 1, \quad \log_{2^r} 2^r = \frac{1}{1} = 1, \quad \log_{2^r} 2^r = \frac{1}{1} = 1$$

$$\frac{1}{1} = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1, \quad \log_{2^r} 2^r = 1$$

$$\log_{2^r} 2^r = m, \quad \log_{2^r} 2^r = m, \quad \log_{2^r} 2^r = m, \quad \log_{2^r} 2^r = m, \quad \log_{2^r} 2^r = m$$

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سوال 7

$$\log_{2^r} 2^r = \log_{2^r} 2^r = \log_{2^r} 2^r = \log_{2^r} 2^r = \log_{2^r} 2^r$$

$$\frac{1}{1} = 1, \quad \log_{2^r} 2^r = m, \quad \log_{2^r} 2^r = m, \quad \log_{2^r} 2^r = m, \quad \log_{2^r} 2^r = m$$

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$$9x+1 > 0$$

$$x > -\frac{1}{9}$$

$$\left(\frac{1}{10}\right)^{px-1} = \left(\frac{1}{\omega}\right)^{x^p} \quad \log_a = ?$$

سوال 1

$$\left(\frac{1}{10}\right)^{px-1} = \left(\frac{\omega}{p}\right)^{x^p}$$

$$\left(\frac{1}{10}\right)^{px-1} = \frac{p^{px-1}}{\omega^{x^p}} = \frac{\omega^{x^p}}{p^{px-1}} = p^{px-1} = \omega^{x^p}$$

$$p^{px-1} = \omega^{x^p} \quad \log p^{px-1} = \log \omega^{x^p}$$

$$(p-1)x = \frac{\log \omega}{\log p} x^p$$

$$p = \frac{p^{px-1}}{p^{px-1}}$$

$$p^{px-1} + p^{px-1} = 0$$

$$x^p + p^{px-1} = 0$$

$$(x+p)(x-1) = 0$$

$$x = -\frac{p}{p} = -1 \quad x = +\frac{1}{p}$$

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$$\log_a^{(4x+1)} = \log_a^{11} = \frac{11}{4x+1}$$

$$\log_a^{(4x+1)} = \frac{1}{p} \log_a^{11} = \frac{1}{p}$$

$$\log_a^p = a \quad \log_a^b = \frac{1}{p} (1+a) \quad \log_a^{(pb-1)} = ?$$

$$p = 1$$

$$\log_a^b = \frac{1}{p} (1+a) \rightarrow \log_a^b = \frac{1}{p} (\log_a^p + \log_a^p)$$

$$\log_a^{(pb-1)} = \log_a^{(p^4+p^4-1)} \quad \log_a^b = \frac{1}{p} (\log_a^p)$$

$$\log_a^{100} = \frac{1}{p}$$

$$\log_a^b = \log_a^{p^4} \rightarrow b = p^4$$

$$-f a x^p + b x + \frac{1}{p} c = 0 \quad \log_a^p \rightarrow \log_a^{(p^4+p^4-1)}$$

$$a = \frac{b+c}{p} \quad \log_a^p = \frac{1}{p} \log_a^{(p^4+p^4-1)}$$

$$a = \frac{b+c}{p}$$

$$\left(\frac{1}{p}\right)^{\frac{1}{a}} = ?$$

$$pa = b+c \rightarrow p = \frac{b}{a} + \frac{c}{a}$$

$$\frac{fa}{b} = \log_a^p \rightarrow p \log_a^p = \frac{fa}{b} \rightarrow \frac{1}{p} \log_a^p = \frac{a}{b} \rightarrow b/a = p \log_a^{10} b$$

$$\frac{1}{\sqrt{p}} = \left(\frac{1}{p}\right)^{\frac{1}{a}}$$

$$\frac{1}{p} = \left(\frac{1}{p}\right)^{\frac{1}{a}}$$

$$\frac{1}{p} = \frac{1}{p} \log_a^{10} b$$

$$\frac{1}{a} = p - p \log_a^{10} b$$

$$p - p \log_a^{10} b = \frac{1}{a}$$

$$\frac{1}{a} = -p \log_a^{10} b$$

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