

سوال نمبر 1020

دیا گیا ہے کہ $\log_{mn} m^n = b$ اور $\log_n m = a$ (1)
[b]?

$$\frac{\log m^n}{\log mn} = \frac{n}{n+1}$$

$$\log_{mn} m^n \Rightarrow \log_{mn} m + \log_{mn} m = b$$

$$\frac{1}{1+\frac{1}{a}} = \frac{1}{\frac{a+1}{a}} = \frac{a}{a+1}$$

$$\frac{1}{\log_{mn} m} \rightarrow \frac{1}{1+\log_n m}$$

$$1 + \frac{a}{a+1} = b \rightarrow [b] = 1$$

جواب: $\frac{a}{a+1}$

$$y = \sqrt{\frac{n}{\log \frac{n}{\frac{1}{y}}}} \rightarrow [n > 0]$$

$$\frac{n}{\log n} > 0$$

نہیں 0

نہیں 0

$$\log \frac{n}{\frac{1}{y}} < 1 < n \text{ اور } \log n < 1 < n$$



Genobar

$$Df = (0, 1)$$

$$(u-2)(u+1)$$

$$(u^2 - u - 2)$$

$$y = \frac{\log 5}{\sqrt{u^2 - 1} + 1}$$

$$\sqrt{u^2 - 1} + 1$$

$$\frac{-1 \quad 1}{+ \quad | \quad - \quad | \quad +}$$

$$\sqrt{(u-1)(u+1)}$$

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

$$\frac{-1 \quad 2}{+ \quad | \quad - \quad | \quad +}$$

$$\frac{\text{---} \quad \text{---} \quad \text{---}}{-1 \quad 1 \quad 2}$$

$$\Rightarrow Df = (-\infty, -1) \cup (2, +\infty)$$

3) $2 \log_a u + \log_a \sqrt{u} = 2$ معادله را برابری با 2 می‌دهد.

$$2 \log_a u + \log_a \sqrt{u} = 2 \rightarrow \log_a u + \log_a \sqrt{u} = 1$$

4) $a = 3$ می‌تواند معادله حل شود.

5) $\log 3 \approx 0.477$, $\log 2 \approx 0.301$ اختلاف ریشه

معادله را با $(-\log \frac{5}{3})u^2 + (\log 9)u - \log 15$ حل می‌کنیم.



5-10

SUBJECT:

Year:

Month:

Day:

Page: ()

$$\frac{|a-b|}{|a|} = \frac{\sqrt{b^2 - \epsilon ac}}{|a|}$$

$$\frac{\sqrt{(1.4)^2 + \epsilon \times \log \frac{\delta}{r} \times \log 10}}{\log \frac{\delta}{r}} = \frac{\log \frac{\delta}{r} + \log \frac{\delta}{r}}{\log \frac{\delta}{r}} = 2$$

$$\log \frac{\delta}{r} \times \log 10 = (\log \delta - \log r) + (\log \delta + \log r) = 2 \log \delta$$

$$\log \delta \Rightarrow \log \frac{10}{2}$$

$$\log \frac{10}{2} \Rightarrow \log 10 - \log 2 = 1 - 0.3 = 0.7 \times 2 = 1.4$$

$$\frac{\sqrt{1.4 + 1.4}}{\log \delta - \log r} = \frac{\sqrt{r}}{0.7} = \frac{1.4 \sqrt{r}}{r} \approx 1.4$$

Senobar

1 $\log_{12} 10 = ?$

$\log_{12} 10 = \frac{1}{2} \log_{12} 100$ $\log_{12} 100 = \frac{2}{11}$ (2)

4 $\log_{12} 10 = \log_{12} 10 + \log_{12} 1$ $\Rightarrow 1 + 1 = 2$ (3)

6 $\frac{1}{\log_{12} 10} = \frac{1}{1/2} = 2$

$\frac{\log_{12} 10}{\log_{12} 12} = \log_{12} 10$

9 $\log_{12} 10 = \log_{12} 10 + \log_{12} 1$ $\Rightarrow 1 + 1 = 2$ (4)

$\frac{2}{11}$

12 $\log_{12} 10 = \log_{12} 10 + \log_{12} 1$ $\Rightarrow 1 + 1 = 2$ (5)

15 $\log_{12} 10 = \log_{12} 10 + \log_{12} 1$ $\Rightarrow 1 + 1 = 2$ (6)

17 $\log_{12} 10 = \log_{12} 10 + \log_{12} 1$ $\Rightarrow 1 + 1 = 2$ (7)

19 $\frac{2}{11} = \frac{2}{11}$ (8)



Ques

SUBJECT

Page: ()

Year:

Month:

Day:

? $\log_{\Sigma} 1^r$ जो $\log_{\Sigma} 1^r$ Σ m (✓)

$$\log_{\Sigma} 1^r = \frac{\log_{\Sigma} 1^r}{\log_{\Sigma} 1^r} = \log_{\Sigma} 1^r \Rightarrow r m = \log_{\Sigma} 1^r$$

$$\log_{\Sigma} 1^r \Rightarrow r \log_{\Sigma} r + \log_{\Sigma} r \quad r m = r \log_{\Sigma} r + \log_{\Sigma} r$$

$$\frac{r m - 1}{r} = \log_{\Sigma} r$$

$$\log_{\Sigma} 1^r \Rightarrow \frac{\log_{\Sigma} 1^r}{\log_{\Sigma} \Sigma} = \frac{\log_{\Sigma} 1^r}{r} \Rightarrow \log_{\Sigma} \Sigma + \log_{\Sigma} r$$

$$\frac{r m + r}{r} = \frac{r(m+1)}{\Sigma}$$

$$\frac{r m - 1}{r}$$

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$$\log_n^{(9n+1)} \left(\frac{0/4}{1}\right)^{2n-1} = \left(\frac{1/4}{1}\right)^n \quad (1)$$

$$\left(\frac{1/4}{1}\right)^{-2n+1} = \left(\frac{1/4}{1}\right)^{2n-1} \quad \left(\frac{1/4}{1}\right)^{2n-1} = \left(\frac{1/4}{1}\right)^{2n-1}$$

$$-2n+1 = 2n-1 \Rightarrow 2n-1 + 2n-1 = 0$$

$$\Rightarrow (2n-1)(n+1) = 0$$

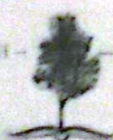
$$\log_n^{\frac{1}{r}} \Rightarrow \frac{\log_r^{\frac{1}{r}}}{\log_r^{\frac{1}{r}}} = \left(\frac{1}{r}\right)^{-1} \Rightarrow X$$

$$\log(r^b - 1)? \quad \log_n^b = \frac{r}{r} (1+a), \quad \log_r^r = a \quad (9)$$

$$\log_n^b \Rightarrow \frac{\log_r^b}{r} = \frac{r}{r} (1+a) \Rightarrow \log_r^b = \frac{r(1+a)}{ra+r}$$

$$\log_r^r = a \quad \log_r^b = \log_r^a + (r) \Rightarrow \log_r^{\frac{1}{r}}$$

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



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$$\log((3 \times 3^4) - 1) = \log(100) = 2$$

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

$$0 = -\sum a x^y + b x + \frac{1}{y} x \quad 10$$

$$f_s - \frac{b}{a} = \frac{-b}{-\sum a} = \frac{b}{\sum a} = \frac{1}{\log \epsilon}$$

$$a + c = 2b \rightarrow \frac{c}{a} = 2 \quad \left(\frac{1}{\sqrt{y}}\right)^2 = \frac{1}{\epsilon \sqrt{y}}$$

زیر دنباله حساب است

"خسته نباشید"

