

۱۱ دفتر B

(۲۳)

۱۹, ۷۵

نام و نام خانوادگی

Subject:

Date: / /

$$\frac{\log_m n}{\log_h mn} = \frac{\log_m n + \log_n n}{\log_m n + \log_n n} = \frac{a+1}{a+1} \quad (1)$$

(5)

$$\left[\frac{a}{a+1} \right] + 1 = \boxed{1 = b}$$

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الف) $\sqrt[n]{\log \frac{1}{x}} \rightarrow n > 0$ $\frac{n}{\log \frac{1}{x}} \rightarrow +\infty$ $\log \frac{1}{x} > 0$ $n < 1$ (2)

$n \neq 1$ $D = (0, 1)$

ب) $\frac{\log \frac{x^2 - x - 2}{\sqrt{x^2 - 1} + 1}}{x^2 - x - 2} > 0$ $\frac{-1}{x^2 - 1} > 0$ (5)

$x^2 - 1 > 0$ $x^2 > 1$ $D = (-\infty, -1) \cup (1, +\infty)$

$x > 1$

$x < -1$

$$r \log_a a + \log_a r = r \Rightarrow \log_a a + \log_a r = r \quad (1)$$

$$1 + \frac{1}{r} = r \Rightarrow r^2 - r + 1 = 0 \quad r = 1 \quad \log_a r = 1$$

(2) $\frac{a}{a} = 1$

$$(\log^a - \log^r) m^r + (r \log^r) m = \log^a - \log^r \quad (3)$$

(1, 10)

$$\log \frac{1}{r} = 1 - 0, r = 0, 1 \Rightarrow 0, r m^r + 0, 1 m = 1, 1 = 0$$

$$\Rightarrow r m^r + 1 m = 1 \quad m = \frac{1}{r} \quad 1 - \frac{1}{r} - \frac{r}{r} = \boxed{\frac{1}{r}} \quad \frac{1}{r}$$

$$\frac{\log^1}{r} = \frac{\log^a + \log^r}{\log^v + \log^r} = \frac{r+1}{r, 1 + 1} = \boxed{\frac{r}{r, 1}} \quad (4)$$

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

$$\frac{\log^4}{r} = \frac{\log^r + \log^r}{\log^r + \log^r} = \frac{1 + \frac{1}{14}}{1 + 1, 2} = \frac{\frac{r, 4}{14} \frac{14}{14}}{\frac{r, 2}{14} \frac{14}{14}} = \boxed{\frac{r, 4}{r, 2}} \quad (5)$$

$$\log^r = \frac{1}{\frac{1}{14}} = \frac{1}{14}$$

s.a.m

$$\frac{r}{r} \log_r^r + \frac{1}{r} = m \Rightarrow$$

$$\frac{m - \frac{1}{r}}{\frac{r}{r}} = \log_r^r$$

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

$$m = \log_r^r + \log_r^r = \frac{r}{r} \log_r^r + \frac{1}{r}$$

$$\log_r^r = \log_r^r + 1 = \frac{1}{r} \log_r^r + 1$$

$$\log_r^r = \frac{1}{r} \times \frac{r^{m-1}}{r} + 1 = \frac{r^{m-1} + r}{r}$$

$$\left(\frac{r}{a}\right)^{r^{m-1}} = \left(\frac{a}{r}\right)^{r^m} \Rightarrow -r^{m+1} = r^m$$

$$r^m + r^{m-1} = 0 \quad m = -1$$

$$m = -1 \Rightarrow a^{m+1} = -1 \quad \text{GEE}$$

$$m = \frac{1}{r} \Rightarrow a \times \frac{1}{r} + 1 = \varepsilon$$

$$\log_r^r = \frac{r}{r}$$

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

$$b = r^q \quad \log_r^{r \times r^q - 1} = \log_r^r = \frac{r}{r}$$

$$\frac{1}{5} = -\frac{a}{b} = \frac{ra}{b} = \log_r^r \Rightarrow \frac{ra}{ra-c} = \log_r^r$$

$$\frac{ra-c}{b} = \frac{ra-c}{ra-c} = \log_r^r = \frac{1}{r} - \frac{c}{ra} = \log_r^r = \frac{1}{r}$$

$$r - \frac{c}{a} = \varepsilon \log_r^r \Rightarrow \frac{c}{a} = \log_r^r - \log_r^r = \log_r^r = \log_r^r$$

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

Sam