

بسم رب الذي خلق العبد

Date:

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ستایش عراقی زاده

$$n^a = m \Rightarrow \log_m^{a+1} = b$$

①

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

$$y = \sqrt{\frac{\log x}{\frac{1}{x}}} \Rightarrow x > 0 \Rightarrow x \neq 1$$

②

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

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

$$\log_a x = t \quad 2t + \frac{1}{t} = 2 \Rightarrow \frac{2}{t} = 2 \Rightarrow t = 1$$

③

$$\log_a x = \frac{k}{a} \Rightarrow a^{\frac{k}{a}} = x$$

$$\log 5 - \log 2 = 0,7 \quad \log 5 = 1 - \log 2$$

$$\log 9 = 2 \log 3 = 0,8 \quad \log 15 = \log 5 + \log 3 = 1,1$$

$$0,7x^2 + 0,8x + 1,1 =$$

MAZADEH

Since 1989

$$0,7x^2 + 0,8x + 1,1 = (x + \frac{1}{2})(x - \frac{1}{2}) \Rightarrow 1 - (-\frac{1}{2}) = \frac{1}{2}$$

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$$\log_{1/r} 10 = \frac{\log 10}{\log r} = \frac{\log a}{r/a + 1}$$

$$\log_r^v = r/a \quad (C)$$

$$\log_a r = r/a \rightarrow \log_r a = r$$

$$\frac{r}{r/a} = \frac{r_0}{r/a} = \left(\frac{1a}{1/r} \right)$$

$$\log_r a = 1/a$$

$$\log_{1/a}^r = ?$$

$$\log_r^r = 1/r$$

$$\frac{\log_r^r}{\log_r} \times \frac{\log_a}{\log_r} = \log_r a = \frac{r}{r} \times \frac{1/r}{1/a} = r/a$$

$$\log_a^r + \log_r^r = \frac{10}{r/a} + \frac{r}{r} = \frac{r/a}{r/a} \Rightarrow \log_r a = \frac{1/r}{1/a}$$

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

$$\left(\log_{1/a}^r = \frac{1/r}{r/a} = 0.4a \right) \Leftrightarrow \log_{1/r} 10 = \frac{r_0}{1/r}$$

$$\log_n^n = n \Rightarrow r^{r_n} = r \times r^r \Rightarrow r = r^{\frac{r_n-1}{r}}$$

$$\log_{1/r}^{1/r} = \log_{1/r}^{r^r \times r^{\frac{r_n-1}{r}}} = \log_{1/r}^{r^r \times r^{\frac{r_n-1}{r}}} = \frac{r \cdot n + r}{r} \log_{1/r} r$$

$$\left(\frac{r_n + r}{r} \right)$$

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$$\left(\frac{r}{a}\right)^{rx-1} = \left(\frac{a}{r}\right)^{rx} \quad rx^r = 1 - rx \quad (1)$$

$$rx^r + rx - 1 = 0 \quad x = -1 \quad \xrightarrow{\text{تجربة}} \log \wedge \text{در صورت}$$

$$\boxed{x = \frac{1}{r}}$$

$$\log \wedge^{r+1} = \left(\frac{r}{r}\right)$$

$$r = r \quad \dots \quad r^{\left(\frac{r}{r}(1+a)\right)} = b \quad (9)$$

$$r^{r+ra} = b = r^r \times (r^a)^r = r^r \times r^r = r^r \quad \log^{101-1} = (r)$$

$$-f a x^r + b x + \frac{1}{r} c = 0 \quad \frac{\alpha + \beta}{\alpha \beta} = \frac{\frac{1}{r} \frac{b}{a}}{-\frac{1}{r} \frac{c}{a}} = -\frac{b}{rc} \quad (10)$$

$$\frac{-b}{rc} = \log f \quad \frac{b+c}{r} = a \Rightarrow -c \log f + \frac{c}{r} = a$$

$$\frac{b}{r} = -c \log f \quad c \left(\frac{1}{r} - \log f \right) = a$$