

مراجعة

$y = a \cdot r^x$ $f(x) = r^{Ax+B} \rightarrow f(x) = r^{x-1} \rightarrow r' = \frac{1}{r} = y_0 = 1$

ع. 1 حل $\rightarrow y = a \cdot r^x \rightarrow r^x = y \rightarrow y = 1 \quad (1, 1)$

$\log y = \log a + x \log r \rightarrow x = \frac{\log y - \log a}{\log r} \quad (1, 9)$

! $\log y = \log a + x \log r$

(1, 1) $f(x) = r^{Ax+B} \rightarrow A+B = 1 \rightarrow A = -B$ / $(1, 9) f(x) = r^{Ax+B} \rightarrow 9 = r^{A+B} \rightarrow 9 = r^1 \rightarrow r = 9$

$\log_r (r^m + 10) = x + r$ $r^x = a \rightarrow \log_r a = x$

$r^x = r \rightarrow \log_r r = x$

$r^x + 10 = r^{(x+r)} \rightarrow r^x + r^x \cdot 10 = r^{(x+r)}$

$r^x - 10r^x + 10 = 0 \rightarrow t^2 - 10t + 10 = 0 \rightarrow (t-2)(t-8) = 0 \rightarrow t = 2$

$t = r^x$

$(\log_r r)^r + \log_r r \cdot \log_r r^r = (\log_r r)^r + r - (\log_r r)^r = r$

$(\log_r r^{10}) (\log_r r^{10})$

$(1 + \log_r r) (r + \log_r r) = (r - \log_r r) (r + \log_r r) = r - (\log_r r)^r$

$\log (m^r - (m-1)) + r \log (1-m) = 2$ $\log_r (-2) = \log_r \frac{9}{2} = r$

$\log (m-1)^r + r \log (1-m) = 2 \rightarrow \log (1-m)^r + r \log (1-m) = 2 \rightarrow 2 \log (1-m) = 2$

$\log (1-m) = 1$

$1-m = 10 \rightarrow m = -9$

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

$\log_r (m^r + r m + r) + (m-r) = r \rightarrow m^r + r m^r + r m - r m^r - r m - r = r$

$m^r = 14 \rightarrow r = 2$

تحويل

$$\log(r-n) = \log \frac{1}{(n-r)^r} = r \log \frac{1}{n-r} \quad \log^{-n} \quad -y$$

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

$$\log(r-n) - (-r \log(r-n)) = r \log(r-n) = r \rightarrow \log(r-n) = 1 \rightarrow r-n = 10$$

$$r^{n-r} = n^n$$

$$\log_y (n-r) > n > r \quad \log_y^4 = \log_y^4 = \frac{r}{r}$$

$$r^{n-r} = r^{nr} \rightarrow n-r = nr \rightarrow n-r-r = 0 \rightarrow n-r-r = 0 \rightarrow n-r-r = 0 \rightarrow n-r-r = 0$$

$$(n-r)^r = \sqrt[n-r]{n} \quad (n-r)^r = \sqrt[n-r]{n} \quad (n-r)^r = \sqrt[n-r]{n}$$

$$\log_r^n = \frac{1}{n} \log_r^n = \frac{1}{n} \log_r^n = \frac{1}{n} \log_r^n = \frac{1}{n} \log_r^n \quad -1$$

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

$$\log_r^n = \frac{1}{n} \quad \log_r^n = \frac{1}{n} \quad \log_r^n = \frac{1}{n}$$

$$\log_r^n + \log_r^n = \log_r^n \rightarrow \log_r^n = \frac{1}{n} \rightarrow \log_r^n = \frac{1}{n}$$

ب، ع، د

$$(a \log r)^n + an + b \log r = 0$$

$$(r)^{\frac{b}{a}} = \dots$$

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

حل المسألة

$$\beta = -\frac{b}{a} \xrightarrow{\text{دفع البعد}} \left(-\frac{b}{a}\right)^r a \log^r + \frac{b}{a} \times a + b \log^r = 0 \quad (10)$$

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

$$\frac{b^r}{a} \log^r - b + b \log^r = 0 \rightarrow \log^r \left(\frac{b^r}{a} + b\right) = b \xrightarrow{\div b} \log^r \left(\frac{b}{a} + 1\right) = 1$$

$$\log^r = \frac{1}{\frac{b}{a} + 1} \xrightarrow{\text{مقلوب}} \log^r = \frac{b}{a} + 1 \rightarrow \log^r = \frac{b}{a} \rightarrow \log^a = \frac{b}{a}$$

$$r \frac{b}{a} = \sqrt[r]{a} \log^r = a \log^r = a^{\frac{1}{r}} = \sqrt[r]{a}$$