

$r(A(1)+B)$

$\rightarrow A+B=0$

$rA+B=r \rightarrow rA+B=r$

$$\begin{array}{r} -A+B=0 \\ rA+B=r \\ \hline rA-A=r \\ \hline A=1 \\ B=-1 \end{array}$$

$f(x) = r^{2x-1} \rightarrow y = \frac{1}{r} \rightarrow (0, \frac{1}{r})$

$\log_r (f^2 + d) = 2 + r \rightarrow r^{2+r} = f^2 + d \rightarrow \frac{r^2}{r} \times 1 = r^{2r} + 1$

$r^2 - 1 + 1d = 0$   
 $(r-1)(r+d) = r+d$

$r^2 = r \rightarrow \log_r r = 2$   
 $r^2 = d \rightarrow \log_r d = 2$

$\log_r r + \log_r d = \log_r 1d$

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

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

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

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

$\log_r (1 - m) = r$

$\log_r^{1-m} = 1 \rightarrow 1 = 1 - m$   
 $m = 0$

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

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

$\log_r 2^{r-1} = r \rightarrow 2 = \sqrt[r]{19} = r^{\frac{r}{r}}$

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

$f \log_r r = r$

$$\log(r-n) - \log \frac{1}{r-n} = 3 \rightarrow \log(r-n) = 3 \quad (4)$$

$$(r-n)^3 = 10^3 \rightarrow r-n=10 \rightarrow n=1 \quad (5)$$

$$\log \frac{(r-n)}{\sqrt{r}} = \log r^{\frac{1}{2}} = \frac{1}{2} \log r = 9$$

$$\log \frac{(r-n)}{4} = \log \frac{\sqrt{r}}{4} = \frac{1}{2} \log r - \log 4$$

$$r^{2r-2} = 1 \quad n$$

$$r^{2r-2} = 10^0 \rightarrow r^{2r-2} = 10^0$$

$$\log \frac{1}{10} = \frac{r \log r}{\log 10} = \frac{r \log r}{r \log r + \log r} = \frac{10}{r+1} = \frac{10}{n} \times \frac{1}{r} = \frac{10}{r} \quad (1)$$

$$\log \frac{4}{10} = \frac{\log r + \log r}{r \log r + \log r} = \frac{1.6 \times 1}{r+1.6} \quad \log r = 1.6 \quad (9) \text{ Answer}$$

$$\frac{1.6 \times 1}{1.6 \times 10} = \frac{10}{10}$$

$$(a \log r)^n + a^n + b \log r = \dots \quad (10)$$

$$a \log r - a + b \log r \rightarrow b \log r = a - a \log r$$

$$b \log r = a(1 - \log r) = \frac{b}{a} = \frac{1 - \log r}{\log r} = \frac{\log a}{\log r} = \log \frac{a}{r}$$

$$\left(\frac{a}{r}\right)^{\frac{b}{a}} = r^{\frac{1}{r} \log a} \rightarrow r \log \frac{a}{r} = \frac{1}{r} \log a = \sqrt{a}$$