

$f(x) = r^{Ax+B}$      $y = x^r$      $(1,0) \rightarrow (0,1)$      $1 = r^{A+B}$      $A+B=0$   
 $(x, y) \rightarrow (y, x)$      $r = r^{A+B}$      $r = r^{A+B}$      $rA+B=r$      $rA+B=r$     (1) -  
 $f(0) = r^0 = 1$      $A=2$      $B=-2$

نقاط تلاقی و سه خطی

$\log_r(r^x + 10) = x + 2$      $r^x + 10 = r^{x+2}$      $r^x \times r^2 = (r^x)^r + 10$     (1,5) - r  
 $x = \log_r r^x$      $\rightarrow \log_r 10$   
 $x = \log_r 10$      $k^r = k^r + 10$      $k^r - k^r + 10 = 0$   
 $x = \log_r 10$      $x = 2$      $\frac{1+r}{r} = \frac{1}{r}$

$(\log_r r)^r + \log_r r^x \times \log_r r^y$      $(2 + \log_r r) (2 - \log_r r) = 2 (\log_r r)^2$     (2)  
 $(\log_r r + \log_r r) \times (\log_r r + \log_r r + \log_r r)$   
 $\log_r \frac{1}{r} \rightarrow \log_r r - \log_r r$      $(r = 2)$

$\log_r (2x^2 - 2x + 1) + 3 \log_r (1-x) = 0$      $\log_r \mu^{(-n)} = ?$      $\log_r (1-x) = k$     (2)  
 $\log_r (1-x)^3 = 0 \rightarrow 1-x = 1 \rightarrow x = 0$      $x = -9$      $\log_r \mu = 2$

$\log_r (x^2 + 2x + 8) + \log_r (x-2) = 3$      $\log_r (x^2 + 2x + 8)(x-2) = 3$      $\log_r x^2 - 1 = 3$     (2)  
 $x^2 - 1 = 1 \rightarrow x^2 = 2 \rightarrow x = \sqrt{2}$      $\log_r \frac{\sqrt{2}}{r} = 3$

$\log_r (r-x) - \log_r \frac{1}{(x-r)^2} = 3$      $2 \log_r (r-x) = 3$      $\log_r (r-x) = 1.5$     (2)  
 $\log_r (r-x) = 1.5$      $r-x = 10$   
 $x = -1$

$x^2 - 2 = 11$      $\log_r (x-2) = ?$      $x^2 - 2 = 11$      $x^2 - 13 = 0$     (2)  
 $\log_r \sqrt{4-2+2} = \log_r \sqrt{4} = \frac{1}{2}$      $x = 2 \pm \sqrt{15}$

$\log_r r = \frac{a}{\lambda}$      $\log_r 1 = ? \rightarrow 3 \log_r r$      $\frac{3 \log_r r}{6 + 3 \log_r r} = \frac{\log_r r}{2 + \log_r r}$     (2)  
 $\frac{a}{\lambda} = \frac{10}{21}$      $\log_r 1 = 0$      $\frac{3 \log_r r}{6 + 3 \log_r r}$

$\log_r r = 1$        $\log_r r = ? \rightarrow \log_r r + \log_r r = \frac{0,1}{1-0,1} + \frac{0,1}{1,1} = \frac{1}{1,1} \cdot \frac{1,1}{1,1} = \frac{1}{1,1}$  (2) -9  
 $\log_r r + \log_r r = \log_r r$        $\log_r r = \frac{1}{1,1}$  (2) -10  
 $\ln \frac{\log_r r}{r}$

$(a \log r) r^r + a r + b \log r = 0$        $x_1 = -1$        $(\sqrt{r})^{\frac{b}{a}}$  (2) -10  
 $a \log r + a + b \log r$        $\log_r r^{(a+b)} - a = 0 \rightarrow \log_r r(a+b) = a$   
 $(a+b) = \frac{a}{\log r} \rightarrow b = \frac{a}{\log r} - a \rightarrow \frac{b}{a} = \frac{1}{\log r} - 1 = \frac{1 - \log r}{\log r} = \frac{1 - \log r}{\log r}$   
 $\sqrt{10} \times \frac{1}{\sqrt{r}} = \sqrt{\frac{10}{r}}$  (2) -10

$x = 1 \rightarrow r^r = r^{A+B} \rightarrow A + B = 0$       -1  
 $x = r \rightarrow r^r = r^{rA+B} \rightarrow rA + B = r$        $\begin{cases} A = 1 \\ B = -1 \end{cases}$   
 $f(0) = r^B = r^{-1} = \frac{1}{r}$

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